



SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)

Accredited with “A” grade by NAAC | 12B Status by UGC | Approved by AICTE

Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai – 600 119

www.sathyabama.ac.in

SCHOOL OF BUILDING AND ENVIRONMENT
DEPARTMENT OF ARCHITECTURE
PRACTICAL TRAINING PORTFOLIO (SAR4063)
DEC 2022

Name of the Student : **KEERTHANA SAJI**

Batch : **2019 - 2024**

Reg No. : **39210039**

Semester : **VII**



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SCHOOL OF BUILDING AND ENVIRONMENT

DEPARTMENT OF ARCHITECTURE

VIVA-VOCE EXAMINATION

SCHOOL OF BUILDING AND ENVIRONMENT

This is to certify that the practical training SAR 4063 is the work of **KEERTHANA SAJI** who had undergone training at **DUBAI CONSULTANTS** has been monitored by the continuous assessment during JUNE 2022 to NOVEMBER 2022.

Dr. Devyani Gangopadhyay

Dr. Devyani Gangopadhyay
DEAN



Submitted for Viva voce Examination held on 13-12-2022

Name of the Student: **KEERTHANA SAJI**

[Signature]
Internal Examiner

[Signature]
External Examiner



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DECLARATION

I, **KEERTHANA SAJI** hereby declare that the Training Report **JULY 2022 to OCTOBER 2022** done by me under the guidance of **Ar. SANJAY MUNSHI** is submitted in partial fulfillment of the requirements for the completion of practical training session.

DATE : 13 - 12 - 2022

PLACE : CHENNAI

A handwritten signature in blue ink, appearing to be 'S. Saji', is written over a red circular stamp.

SIGNATURE OF CANDIDATE

ACKNOWLEDGEMENT

I am pleased to acknowledge my sincere thanks to **Board of Management of SATHYABAMA** for their kind encouragement in doing this practical training and for completing it successfully. I am grateful to them.

I convey my thanks to **Dr. Devyani Gangopadhyay**, Dean, School of Building and Environment and **Ar.Sarath Chandra Kanth**, Design Chair, Department of Architecture for having been a constant source of support and encouragement.

I wish to express my thanks to all Teaching and Non-teaching staff members of the Department of who were helpful in many ways for the completion of the project.

I also wish to thank **Ar. SANJAY MUNSHI** for the experience of interning at their firm.

JOINING LETTER

DC
مشاركون
دبي
DUBAI
CONSULTANTS

July 6, 2022

To
The Principal
Sathyabama Institute of Science and Technology,
Chennai

Subject : Joining of Ms. Keerthana Saji

Dear Sir,

This is to inform you that Ms. Keerthana Saji has joined us as Trainee as part of her B. Arch. curriculum starting from 1st of July, 2022.

She will be working with us as Trainee for 90 working days under the supervision of the undersigned.

Yours truly,
For Dubai Consultants


Sanjay Munshi
Manager - Operations



Architects . Engineers . Design Consultants
Office: 507, Block B, Business Village, Port Saeed, Deira, P.O. Box 81385, Dubai, UAE
Tel: +971 4 3262431, 04 3332647, Fax: +971 4 3262437 email: info@dubaiconsultants.ae

معماريون . مهندسون . مستشارون وتصميم
مكتب: 507، بلكة B، قرية الأعمال، ميناء السعيد، ديرة، صندوق بريد 81385، دبي، الإمارات العربية المتحدة
هاتف: +971 4 3262431 / 04 3332647 فاكس: +971 4 3262437 بريد إلكتروني: info@dubaiconsultants.ae

MONTHLY REPORT I



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DEPARTMENT OF ARCHITECTURE

PROFESSIONAL PRACTICAL TRAINING REPORT 2022

(Continuous progress report of the trainee architect for the period of One month in the office to submitted to HOD by the Trainee in Charge of the Organization)

1. Name of the office / organization : DUBAI CONSULTANTS
2. Address & Contact Number : Office No. 527 Block JB, Business Village, Port Saeed, Deira, Dubai
Tel No. +971 4 3252431
3. Name of the student : Keerthana Saji
4. Duration : From 1st July To 20th July
5. Total No. of days : 12 days

6. Evaluation of Performance criteria shall be on

* Note: Kindly grade the student as per his/her overall performance in the office during the assessment month which will be converted to the allotted 90 marks by the department.

Description of works	Excellent	Good	Fair	Poor	NA
Understanding of office culture	✓				
Participation in the office		✓			
Reading of drawings		✓			
Presentation Techniques	✓				
Model making works	✓				
Understanding of construction details		✓			
Drafting Skills (Manual / Computer)	✓				
Site Supervision / Discussion with clients					✓
Adherence to Time schedule	✓				
Other computer skills		✓			
File and Office Maintenance					✓
Coordination with other consultants					✓
Overall Grading*	A				

(A - 90, B - 80, C - 70, D - 60, E - 50)



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7. Any other Remarks : is keen to understand all aspects of a project

8. Signature of the:
Head of the Office
/ Organization
(With Seal)



MONTHLY REPORT II



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DEPARTMENT OF ARCHITECTURE

PROFESSIONAL PRACTICAL TRAINING REPORT 2022

(Continuous progress report of the trainee architect for the period of One month in the office to submitted to HOD by the Trainee in Charge of the Organization)

- Name of the office / organization :** DUBAI CONSULTANTS
- Address & Contact Number :** Office No. 527 Block JB, Business Village , Port Saeed, Deira, Dubai
Tel No. +971 4 3262431
- Name of the student :** Keerthana Saji
- Duration :** From 21st July To 15th August
- Total No. of days :** 17 days
- Evaluation of Performance criteria shall be on**
* Note: Kindly grade the student as per his/her overall performance in the office during the assessment month which will be converted to the allotted 90 marks by the department.

Description of works	Excellent	Good	Fair	Poor	NA
Understanding of office culture	✓				
Participation in the office		✓			
Reading of drawings		✓			
Presentation Techniques	✓				
Model making works	✓				
Understanding of construction details		✓			
Drafting Skills (Manual / Computer)	✓				
Site Supervision / Discussion with clients		✓			
Adherence to Time schedule	✓				
Other computer skills		✓			
File and Office Maintenance					✓
Coordination with other consultants					✓
Overall Grading*	A				

(A - 9.0, B - 8.0, C - 7.0, D - 6.0, E - 5.0)



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- Any other Remarks :** is a good and patient learner
- Signature of the:**
Head of the Office
/ Organization
(With Seal)




MONTHLY REPORT III



SATHYABAMA

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DEPARTMENT OF ARCHITECTURE

PROFESSIONAL PRACTICAL TRAINING REPORT 2022

(Continuous progress report of the trainee architect for the period of One month in the office to submitted to HOD by the Trainee in Charge of the Organization)

1. Name of the office / organization : DUBAI CONSULTANTS

2. Address & Contact Number : Office No. 527 Block JB, Business Village , Port Saeed, Deira, I
Tel No. +971 4 3282431

3. Name of the student : Keerthana Saji

4. Duration : From 11-Aug-2022 To 13-Sept-2022

5. Total No. of days : 27 days

6. Evaluation of Performance criteria shall be on
 * Note: Kindly grade the student as per his/her overall performance in the office during the assessment month which will be converted to the allotted 90 marks by the department.

Description of works	Excellent	Good	Fair	Poor	NA
Understanding of office culture	✓				
Participation in the office		✓			
Reading of drawings		✓			
Presentation Techniques	✓				
Model making works	✓				
Understanding of construction details	✓				
Drafting Skills (Manual / Computer)	✓				
Site Supervision / Discussion with clients		✓			
Adherence to Time schedule	✓				
Other computer skills		✓			
File and Office Maintenance					✓
Coordination with other consultants					✓
Overall Grading*	A				

(A - 9.0, B - 8.0, C - 7.0, D - 6.0, E - 5.0)



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7. Any other Remarks : Diligent, understand team / project objectives , active team player.

**8. Signature of the:
Head of the Office
/ Organization
(With Seal)**




P.O. Box 51385 Dubai - U.A.E
Tel: 3282431 Fax: 3282437
email: info@dubaiconsultants.ae

MONTHLY REPORT IV


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DEPARTMENT OF ARCHITECTURE

PROFESSIONAL PRACTICAL TRAINING REPORT 2022

(Continuous progress report of the trainee architect for the period of One month in the office to submitted to HOD by the Trainee in Charge of the Organization)

1. Name of the office / organization : Dubai Consultants

2. Address & Contact Number : Office No. 527, Block B, Business Village,
Port Saeed, Deira, Dubai, UAE ; Tel No. +971 4 3262431

3. Name of the student : Keerthana Saji

4. Duration : From 14th Sept. 2022 To 31st October 2022

5. Total No. of days : 35 Days

6. Evaluation of Performance criteria shall be on

* Note: Kindly grade the student as per his/her overall performance in the office during the assessment month which will be converted to the allotted 90 marks by the department.

Description of works	Excellent	Good	Fair	Poor	NA
Understanding of office culture	✓				
Participation in the office		✓			
Reading of drawings		✓			
Presentation Techniques	✓				
Model making works	✓				
Understanding of construction details		✓			
Drafting Skills (Manual / Computer)	✓				
Site Supervision / Discussion with clients		✓			
Adherence to Time schedule	✓				
Other computer skills		✓			
File and Office Maintenance					✓
Coordination with other consultants					✓
Overall Grading*	A				

(A - 9.0, B - 8.0, C - 7.0, D - 6.0, E - 5.0)


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7. Any other Remarks: Active team player, completes the task on time and with perfection.

8. Signature of the:
Head of the Office
/ Organization
(With Seal)




P.O. Box 51355 Dubai - U.A.E.
 Tel: 3262431 Fax: 3262437
 email: info@dubaiconsultants.ae
DUBAI CONSULTANTS

WORK DIARY

SR. NO.	WEEK	PROJECT	CATEGORY	SUMMARY
1	WEEK 1	WARSAN / AL AQAH SS	CIVIL - SUBSTATION	3D model for an on-going project and incorporate changes and comments given from the client. Studying previous substation project and understanding the various components and requirements of the currents project.
2	WEEK 2	AL AQAH SS	CIVIL - SUBSTATION	Studying drawings received from MEP consultants and draft floor plans for the same.
3	WEEK 3	AL AQAH SS	CIVIL - SUBSTATION	Understanding technical specifications and client requirements for the project, drafting sections and elevations.
4	WEEK 4	AL AQAH SS	CIVIL - SUBSTATION	Revision of plan drawings as per revised MEP drawings.
5	WEEK 5	AL AQAH SS	CIVIL - SUBSTATION	Drawings for fire escape route, window & door schedules and finishing schedules.
6	WEEK 6	FAIR SS	CIVIL - SUBSTATION	Introduction to new project and drafting floor plans.
7	WEEK 7	FAIR SS	CIVIL - SUBSTATION	Drafting sections and exploring various elevation options.
8	WEEK 8	FAIR SS	CIVIL - SUBSTATION	Drawings for fire escape route, window & door schedules and finishing schedules.
9	WEEK 9	FAIR SS	CIVIL - SUBSTATION	Elevation options and model for the same.

10	WEEK 10	FAIR SS	CIVIL - SUBSTATION	Drainage layouts and sections.
11	WEEK 11	BURJ CROWN	ARCH - RESIDENCE	Toilet drawings, Wall type plans, sections, elevations, glazing schedule and interior elevations for apartment units.
12	WEEK 12	BURJ CROWN	ARCH - RESIDENCE	
13	WEEK 13	FAIR SS	CIVIL - SUBSTATION	Revision of section drawings, elevation options and model as per revised MEP drawings.
14	WEEK 14	RABIYA	ARCH - PRIVATE RESIDENCE	Update model as per changes in plan
15	WEEK 15	RABIYA	ARCH - PRIVATE RESIDENCE	Propose new exterior option in model.
16	WEEK 16	RABIYA	ARCH - PRIVATE RESIDENCE	
17	WEEK 17	RABIYA	ARCH - PRIVATE RESIDENCE	Revision of exterior options and elements in model.
18	WEEK 18	RABIYA	ARCH - PRIVATE RESIDENCE	
19	WEEK 19	RABIYA	ARCH - PRIVATE RESIDENCE	

CONSOLIDATED CERTIFICATE



31 October 2022

To,

Dr. Devyani Ganopadhyay
Dean - Dept. of Architecture
Sathyabama Institute of Science and Technology
Chennai, Tamil Nadu, India

SUBJECT : COMPLETION OF INTERNSHIP

Dear Madam,

This is to Certify that **Ms Keerthana Saji** of Indian Nationality (Reg. No. 39210039, Batch 2019-2024) a student of Architecture pursuing B. Arch-IV Year from Sathyabama Institute of Science and Technology successfully completed her 92 working days (from 1st July 2022 till 31st October 2022) of internship with **M/s DUBAI CONSULTANTS**. During the period of her internship with us she was found, punctual, obedient, hardworking and inquisitive.

We wish her every success in life.

Thanks & Regards

For Dubai Consultants,

Sanjay Munshi
Manager- Operations



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1.4	PROJECT 3 – BURJ CROWN	
1.5	PROJECT 4 – RABIYA (PRIVATE RESIDENCE)	

1.1 ABOUT THE FIRM:

DUBAI CONSULTANTS



Founded in 1975, Dubai Consultants provides fully integrated design services which include architecture, engineering, landscape and construction management.

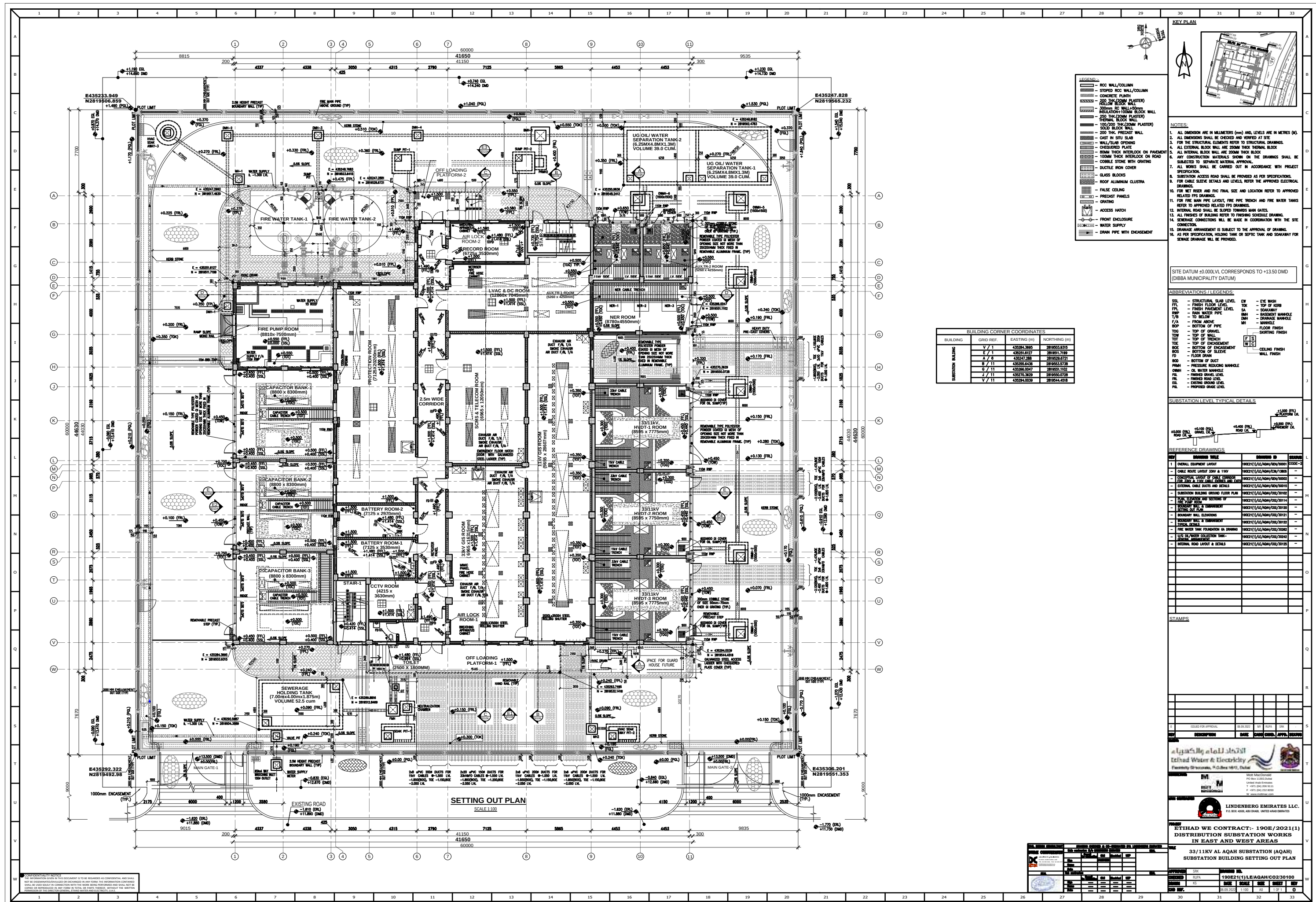
By 1985 they had expanded their practice, as well as the breadth and scope of services, throughout the Emirates and South Asia to governments, corporations and institutional clients in the areas of hospitality, housing, healthcare, township development and projects of great diversity.

The firm offers personalized services to its clients and is flexible in customizing a service specific to their individual requirements. Their aim is to focus on the clients' needs and to meet their objectives of cost and time parameters and to deliver a quality product in which both the client and the firm take pride.

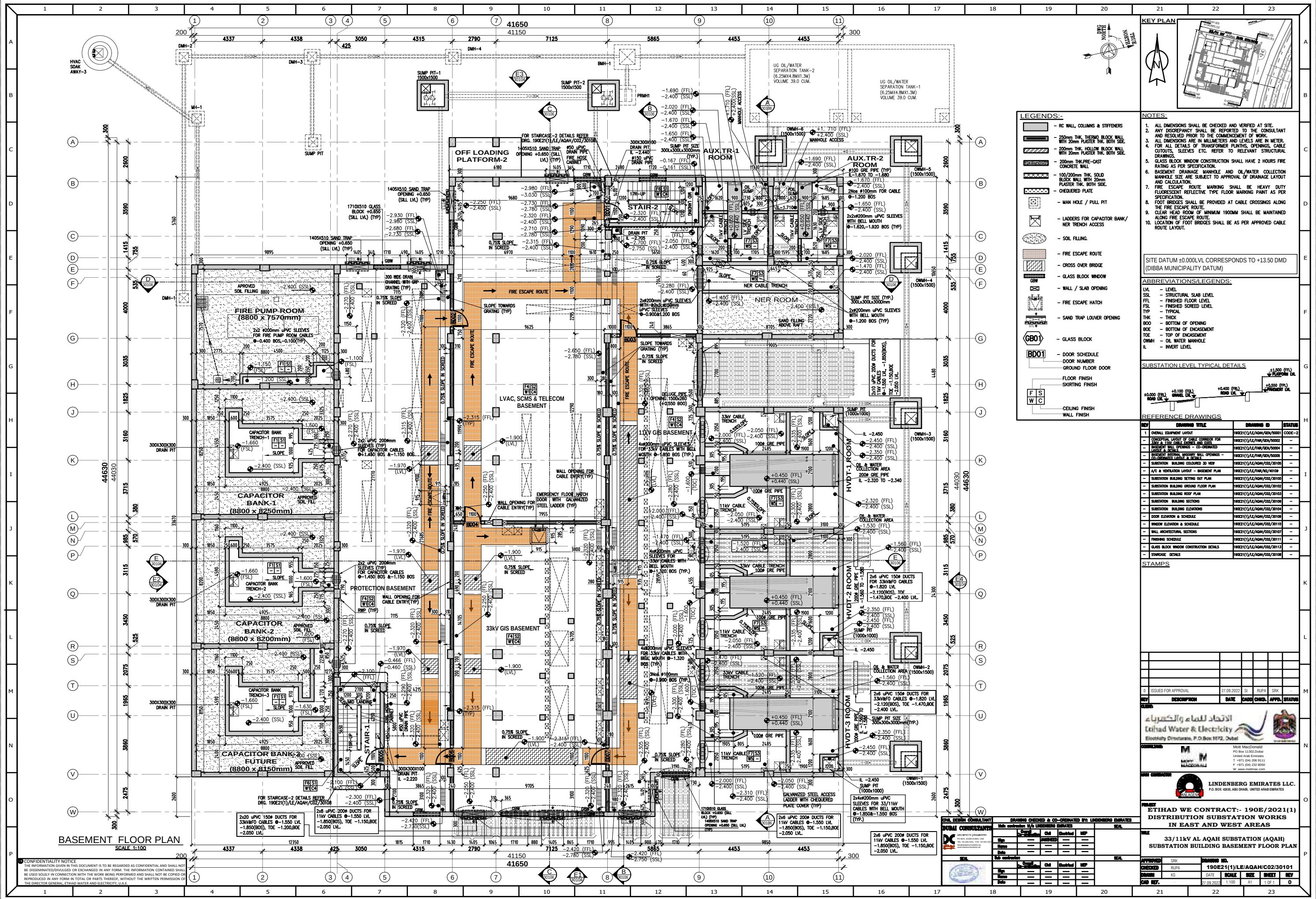




PROJECT 1: AL AQAH SUBSTATION

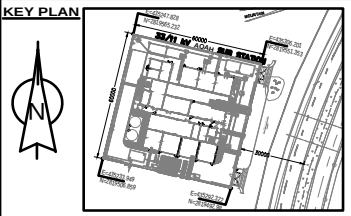


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LEGENDS:-

- RC WALL, COLUMNS & STIFFENERS
- 250mm THK. THERMO BLOCK WALL WITH 20mm PLASTER THK. BOTH SIDE
- 200mm THK. HOLLOW BLOCK WALL WITH 20mm PLASTER THK. BOTH SIDE
- 200mm THK. PRE-CAST CONCRETE WALL
- 100/200mm THK. SOLID BLOCK WALL WITH 20mm PLASTER THK. BOTH SIDE
- CHECKERED PLATE
- MAN HOLE / PULL PIT
- LADDERS FOR CAPACITOR BANK/NER TRENCH ACCESS
- SOIL FILLING
- FIRE ESCAPE ROUTE
- CROSS OVER BRIDGE
- GLASS BLOCK WINDOW
- WALL / SLAB OPENING
- FIRE ESCAPE HATCH
- SAND TRAP LOUVER OPENING
- GLASS BLOCK (GB01)
- DOOR SCHEDULE (BD01)
- DOOR NUMBER
- GROUND FLOOR DOOR
- FLOOR FINISH
- SKIRTING FINISH
- CEILING FINISH
- WALL FINISH

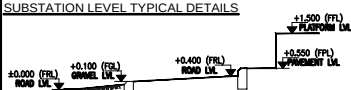


- NOTES:**
1. ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED AT SITE.
 2. ANY DISCREPANCY SHALL BE REPORTED TO THE CONSULTANT AND RESOLVED PRIOR TO THE COMMENCEMENT OF WORK.
 3. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METER.
 4. FOR ALL DETAILS OF TRANSFORMER PLUNTS, OPENINGS, CABLE CUTOUTS, SLEEVES ETC. REFER TO RELEVANT STRUCTURAL DRAWINGS.
 5. GLASS BLOCK WINDOW CONSTRUCTION SHALL HAVE 2 HOURS FIRE RATING AS PER SPECIFICATION.
 6. BASEMENT DRAINAGE MANHOLE AND OIL/WATER COLLECTION MANHOLE SIZE ARE SUBJECT TO APPROVAL OF DRAINAGE LAYOUT AND CALCULATION.
 7. FIRE ESCAPE ROUTE MARKING SHALL BE HEAVY DUTY FLUORESCENT REFLECTIVE TYPE FLOOR MARKING PASTE AS PER SPECIFICATION.
 8. FOOT BRIDGES SHALL BE PROVIDED AT CABLE CROSSINGS ALONG THE FIRE ESCAPE ROUTE.
 9. CLEAR HEAD ROOM OF MINIMUM 1900MM SHALL BE MAINTAINED ALONG FIRE ESCAPE ROUTE.
 10. LOCATION OF FOOT BRIDGES SHALL BE AS PER APPROVED CABLE ROUTE LAYOUT.

SITE DATUM +0.000 LVL CORRESPONDS TO +13.50 DMD (DIBBA MUNICIPALITY DATUM)

ABBREVIATIONS/LEGENDS:

LVL	- LEVEL
SSL	- STRUCTURAL SLAB LEVEL
FFL	- FINISHED FLOOR LEVEL
FSL	- FINISHED SCAFFOLD LEVEL
TYP	- TYPICAL
THK	- THICK
BOO	- BOTTOM OF OPENING
BOE	- BOTTOM OF ENCASEMENT
TOE	- TOP OF ENCASEMENT
OWMH	- OIL WATER MANHOLE
IL	- INVERT LEVEL



REFERENCE DRAWINGS

REV	DRAWING TITLE	DRAWING NO	STATUS
1	OVERALL EQUIPMENT LAYOUT	190221(1)/LE/AQAH/02/30101	CODE-2
-	CONCEPTUAL LAYOUT OF CABLE CONDUIT FOR 33KV CABLE DUCTS AND BOX	190221(1)/LE/WH/02/30102	-
-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30103	-
-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30104	-
-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30105	-
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-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30143	-
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-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30147	-
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-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30156	-
-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30157	-
-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30158	-
-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30159	-
-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30160	-
-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30161	-
-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30162	-
-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30163	-
-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30164	-
-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30165	-
-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30166	-
-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30167	-
-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30168	-
-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30169	-
-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30170	-
-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30171	-
-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30172	-
-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30173	-
-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30174	-
-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30175	-
-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30176	-
-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30177	-
-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30178	-
-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30179	-
-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30180	-
-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30181	-
-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30182	-
-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30183	-
-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30184	-
-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30185	-
-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30186	-
-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30187	-
-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30188	-
-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30189	-
-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30190	-
-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30191	-
-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30192	-
-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30193	-
-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30194	-
-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30195	-
-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30196	-
-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30197	-
-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30198	-
-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30199	-
-	BASEMENT BUILDING ELEVATIONS - CO-ORDINATED	190221(1)/LE/WH/02/30200	-

STAMPS

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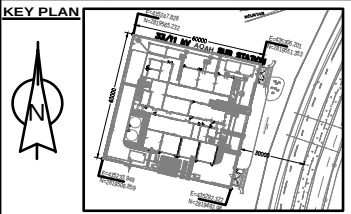
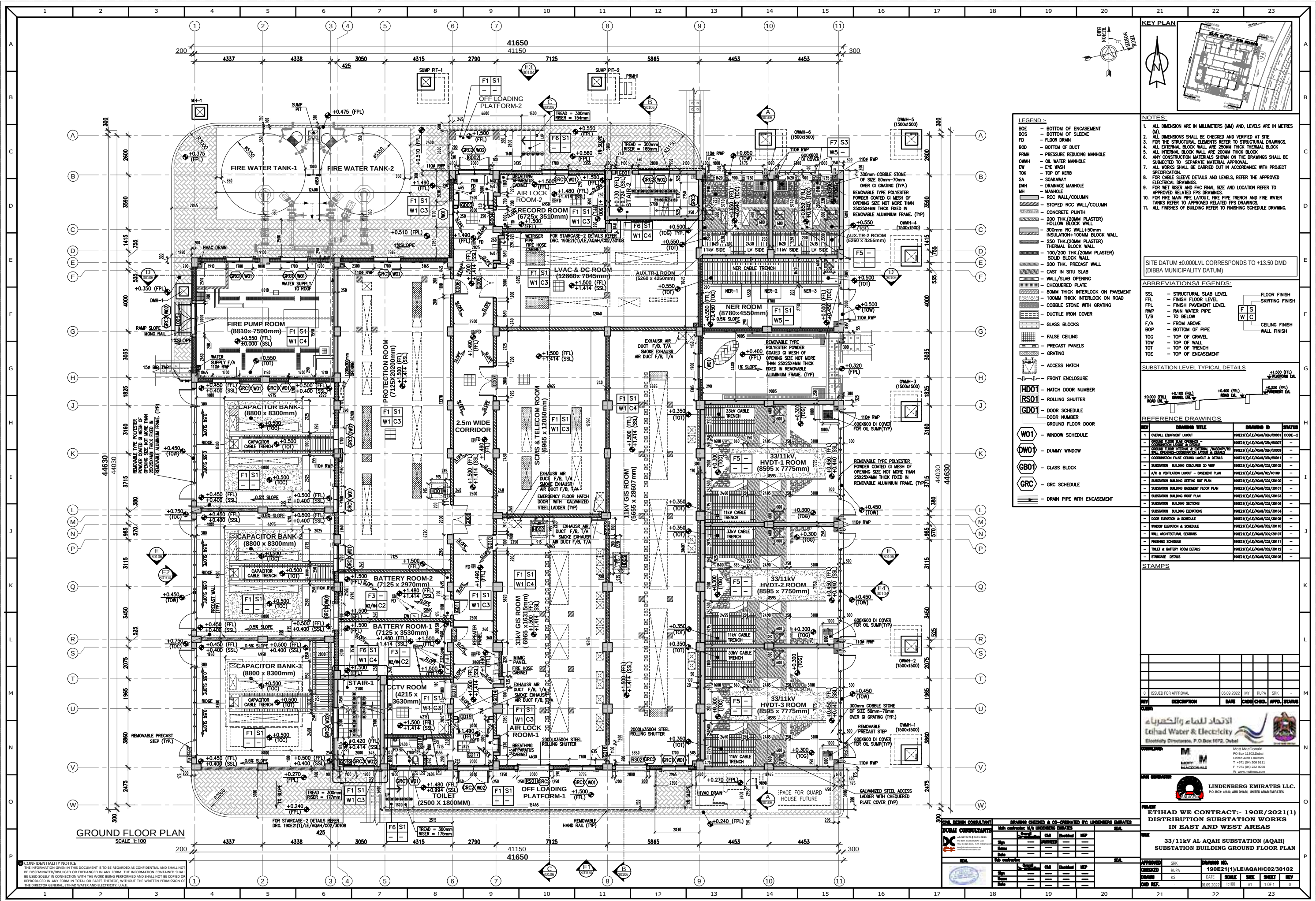


LINDENBERG EMIRATES LLC.
P.O. BOX 4250, ABU DHABI, UNITED ARAB EMIRATES

ETIHAD WE CONTRACT:- 190E/2021(1) DISTRIBUTION SUBSTATION WORKS IN EAST AND WEST AREAS

33/11KV AL AQAH SUBSTATION (AQAH) SUBSTATION BUILDING BASEMENT FLOOR PLAN

APPROVED	SRK	DRAWING NO	190E21(1)/LE/AQAH/02/30101
CHECKED	RUPA	DATE	27/09/2022
DRAWN	KS	SCALE	1:100
CAD REF.		SHEET	1 OF 1
		REV	0



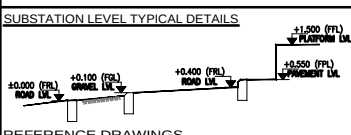
- LEGEND:**
- BOE - BOTTOM OF ENCASMENT
 - BOS - BOTTOM OF SLEEVE
 - FD - FLOOR DRAIN
 - BD - BOTTOM OF DUCT
 - PS - PRESSURE REDUCING MANHOLE
 - OWMH - OIL WATER MANHOLE
 - EW - EYE WASH
 - TK - TOP OF KERB
 - SA - SOAKAWAY
 - DMH - DRAINAGE MANHOLE
 - WH - WALL/COLUMN
 - STOPED RCC WALL/COLUMN
 - CONCRETE PLINTH
 - 200 THK (20MM PLASTER) HOLLOW BLOCK WALL
 - 300mm RC WALL+50mm INSULATION+100mm BLOCK WALL
 - 250 THK (20MM PLASTER) THERMAL BLOCK WALL
 - 100/200 THK (20MM PLASTER) SOLID BLOCK WALL
 - 200 THK PRECAST WALL
 - CAST IN SITU SLAB
 - WALL/SLAB OPENING
 - CHEQUERED PLATE
 - 80MM THICK INTERLOCK ON PAVEMENT
 - 100MM THICK INTERLOCK ON ROAD
 - COBBLE STONE WITH GRATING
 - DUCTILE IRON COVER
 - GLASS BLOCKS
 - FALSE CEILING
 - PRECAST PANELS
 - GRATING
 - ACCESS HATCH
 - FRONT ENCLOSURE
 - HDO1 - HATCH DOOR NUMBER
 - RSO1 - ROLLING SHUTTER
 - GD01 - DOOR SCHEDULE
 - DOOR NUMBER
 - GROUND FLOOR DOOR
 - W01 - WINDOW SCHEDULE
 - DW01 - DUMMY WINDOW
 - GB01 - GLASS BLOCK
 - GRC - GRC SCHEDULE
 - DRAIN PIPE WITH ENCASMENT

- NOTES:**
- ALL DIMENSION ARE IN MILLIMETERS (MM) AND, LEVELS ARE IN METRES (M).
 - ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED AT SITE.
 - FOR THE STRUCTURAL ELEMENTS REFER TO STRUCTURAL DRAWINGS.
 - ALL EXTERNAL BLOCK WALL ARE 250MM THICK THERMAL BLOCK.
 - ALL INTERNAL BLOCK WALL ARE 200MM THICK BLOCK.
 - ANY CONSTRUCTION MATERIALS SHOWN ON THE DRAWINGS SHALL BE SUBJECT TO SEPARATE MATERIAL APPROVAL.
 - ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH PROJECT SPECIFICATION.
 - FOR CABLE SLEEVE DETAILS AND LEVELS, REFER THE APPROVED ELECTRICAL DRAWINGS.
 - FOR NET RISER AND FHC FINAL SIZE AND LOCATION REFER TO APPROVED RELATED FPS DRAWINGS.
 - FOR THE MAIN PIPE LAYOUT, FIRE PIPE TRENCH AND FIRE WATER TANKS REFER TO APPROVED RELATED FPS DRAWINGS.
 - ALL FINISHES OF BUILDING REFER TO FINISHING SCHEDULE DRAWING.

SITE DATUM ± 0.000 VL CORRESPONDS TO ± 13.50 DMD (DIBBA MUNICIPALITY DATUM)

ABBREVIATIONS/LEGENDS:

SSL	- STRUCTURAL SLAB LEVEL	FLOOR FINISH
FFL	- FINISH FLOOR LEVEL	SKIRTING FINISH
FPL	- FINISH PAVEMENT LEVEL	
RWP	- RAIN WATER PIPE	
T/B	- TO BELOW	
F/A	- FROM ABOVE	
BOP	- BOTTOM OF PIPE	
TOW	- TOP OF GRAVEL	
TOT	- TOP OF TRENCH	
TOE	- TOP OF ENCASMENT	



REFERENCE DRAWINGS

NO.	DRAWING TITLE	DRAWING NO.	STATUS
1	OVERALL EQUIPMENT LAYOUT	190E21(1)/LE/AQAH/020/0001	CODE-2
2	GROUND FLOOR SLAB FINISHES	190E21(1)/LE/AQAH/020/0002	-
3	COORDINATION LAYOUT & DETAILS	190E21(1)/LE/AQAH/020/0003	-
4	GROUND FLOOR THERMAL & THERMAL INSULATION WALL FINISHES-COORDINATION LAYOUT & DETAILS	190E21(1)/LE/AQAH/020/0004	-
5	COORDINATION FALSE CEILING LAYOUT & DETAILS	190E21(1)/LE/AQAH/020/0005	-
6	SUBSTATION BUILDING COLOURED 3D VIEW	190E21(1)/LE/AQAH/020/0006	-
7	A/C & VENTILATION LAYOUT - BASEMENT PLAN	190E21(1)/LE/AQAH/020/0007	-
8	SUBSTATION BUILDING SETTING OUT PLAN	190E21(1)/LE/AQAH/020/0008	-
9	SUBSTATION BUILDING BASEMENT FLOOR PLAN	190E21(1)/LE/AQAH/020/0009	-
10	SUBSTATION BUILDING ROOF PLAN	190E21(1)/LE/AQAH/020/0010	-
11	SUBSTATION BUILDING SECTIONS	190E21(1)/LE/AQAH/020/0011	-
12	SUBSTATION BUILDING ELEVATIONS	190E21(1)/LE/AQAH/020/0012	-
13	DOOR ELEVATION & SCHEDULE	190E21(1)/LE/AQAH/020/0013	-
14	WINDOW ELEVATION & SCHEDULE	190E21(1)/LE/AQAH/020/0014	-
15	WALL ARCHITECTURAL SECTIONS	190E21(1)/LE/AQAH/020/0015	-
16	FINISHING SCHEDULE	190E21(1)/LE/AQAH/020/0016	-
17	TOILET & BATTERY ROOM DETAILS	190E21(1)/LE/AQAH/020/0017	-
18	STAIRCASE DETAILS	190E21(1)/LE/AQAH/020/0018	-

STAMPS

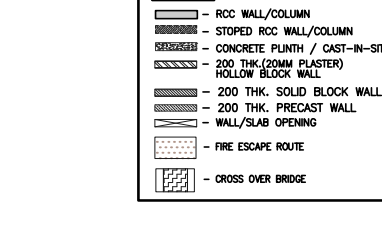
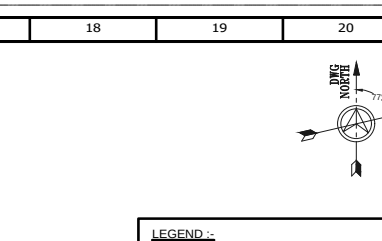
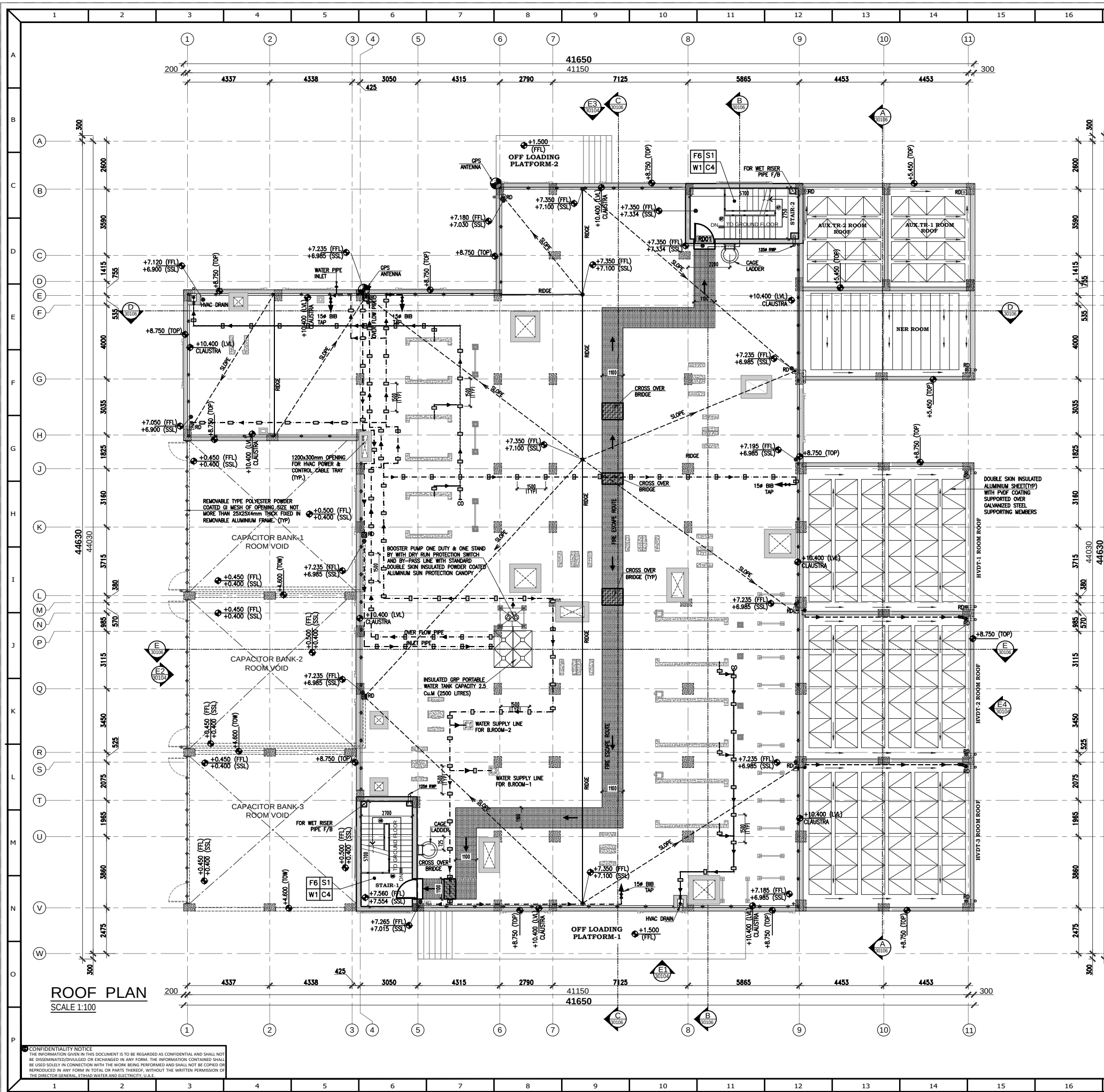
ETIHAD WATER & ELECTRICITY
Electricity Directorate, P.O. Box 1672, Dubai

LINDENBERG EMIRATES LLC.
P.O. Box 4300, Abu Dhabi, United Arab Emirates

ETIHAD WE CONTRACT:- 190E/2021(1) DISTRIBUTION SUBSTATION WORKS IN EAST AND WEST AREAS

33/11kV AL AQAH SUBSTATION (AQAH) SUBSTATION BUILDING GROUND FLOOR PLAN

APPROVED	SKP	DRAWING NO.	190E21(1)/LE/AQAH/020/00102
CHECKED	KS	DATE	06.09.2022
SCALE	1:100	SHEET	A1
CAD REF.	1 OF 1	REV	0



KEY PLAN

NOTES:

- ANY DISCREPANCY TO BE REPORTED TO THE CONSULTANT AND RESOLVED PRIOR TO THE COMMENCEMENT OF WORKS.
- ALL DIMENSION ARE IN MILLIMETERS (mm) AND, LEVELS ARE IN METRES (M).
- FOR THE STRUCTURAL ELEMENTS REFER TO STRUCTURAL DRAWINGS.
- ANY CONSTRUCTION MATERIALS SHOWN ON THE DRAWINGS SHALL BE SUBMITTED TO SEPARATE MATERIAL APPROVAL.
- PARAPET HEIGHT SHOWN HERE SHOULD BE RE-CONFIRMED WITH THE HEIGHT OF HVAC EQUIPMENT. TOPR MUST BE ABOVE MAXIMUM LEVEL OF HVAC UNITS/DUCTS.
- RAIN WATER PIPES ARE SHOWN INDICATIVELY FINAL SIZE AND LOCATION ARE SUBJECT TO DRAINAGE APPROVAL.
- DETAILED DRAWINGS FOR ROOF TRUSS REVIEWED BY APPROVED CONSULTANT SHALL BE SUBMITTED FOR APPROVAL.
- OPENING SIZES AND LOCATION ARE INDICATIVE. FOR OPENING SIZES AND LOCATION SHOWN IN THE DRAWING, REFER RELEVANT APPROVED DRAWINGS.

SITE DATUM ±0.000 LVL CORRESPONDS TO +13.50 DMD (DIBBA MUNICIPALITY DATUM)

ABBREVIATIONS/LEGENDS:

SSL - STRUCTURAL SLAB LEVEL
FFL - FINISH FLOOR LEVEL
RWP - RAIN WATER PIPE
T/B - TO BELOW
F/A - FROM ABOVE
TOP - TOP OF PARAPET
TOW - TOP OF WALL
FD - FLOOR DRAIN
FT - FLOOR TRAP
CO - CLEAN OUT

FLOOR FINISH SKIRTING FINISH

CEILING FINISH WALL FINISH

SUBSTATION LEVEL TYPICAL DETAILS

REFERENCE DRAWINGS

NO.	DRAWING TITLE	DRAWING NO.	STATUS
1	OVERALL EQUIPMENT LAYOUT	1902(1)1/AE/AQH/02/30001	CODE-2
2	CABLE ROUTE LAYOUT 33KV & 11KV	1902(1)1/AE/AQH/02/30005	-
3	SUBSTATION BUILDING SETTING OUT PLAN	1902(1)1/AE/AQH/02/30105	-
4	SUBSTATION BUILDING GROUND FLOOR PLAN	1902(1)1/AE/AQH/02/30106	-
5	SUBSTATION BUILDING ROOF FLOOR PLAN	1902(1)1/AE/AQH/02/30107	-
6	SUBSTATION BUILDING ELEVATIONS (ALL SIDES)	1902(1)1/AE/AQH/02/30108	-
7	DOOR ELEVATION & SCHEDULE	1902(1)1/AE/AQH/02/30109	-
8	WINDOW ELEVATION & SCHEDULE	1902(1)1/AE/AQH/02/30110	-
9	WALL ARCHITECTURAL SECTIONS	1902(1)1/AE/AQH/02/30111	-
10	FLOORING SCHEDULE	1902(1)1/AE/AQH/02/30112	-
11	GLASS BLOCK WINDOW CONSTRUCTION DETAILS	1902(1)1/AE/AQH/02/30113	-
12	PLUMB ELEVATION AND SECTIONS OF THE PUMP ROOM	1902(1)1/AE/AQH/02/30114	-
13	BOUNDARY WALL & EMBANKMENT SETTING OUT PLAN	1902(1)1/AE/AQH/02/30115	-
14	BOUNDARY WALL ELEVATIONS	1902(1)1/AE/AQH/02/30116	-
15	BOUNDARY WALL & EMBANKMENT TYPICAL DETAILS	1902(1)1/AE/AQH/02/30117	-
16	FIRE WATER TANK FOUNDATION & DETAILS	1902(1)1/AE/AQH/02/30118	-
17	U/S OF WATER COLLECTION TANK - STRUCTURAL DETAILS	1902(1)1/AE/AQH/02/30119	-
18	TOTAL & HISTORY ROOM DETAILS	1902(1)1/AE/AQH/02/30120	-
19	INTERNAL ROAD LAYOUT & DETAILS	1902(1)1/AE/AQH/02/30121	-
20	STORAGE DETAILS	1902(1)1/AE/AQH/02/30122	-

STAMPS

0 ISSUED FOR APPROVAL 27.09.2022 MY RUPA SRK

CLIENT
الاتحاد للماء والكهرباء
Etihad Water & Electricity
Electricity Directorate, P.O. Box 1072, Dubai

CONSULTANT
LINDENBERG EMIRATES LLC.
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PROJECT
ETIHAD WE CONTRACT- 190E/2021(1)
DISTRIBUTION SUBSTATION WORKS
IN EAST AND WEST AREAS

**33/11kV AL AQAH SUBSTATION (AQAH)
SUBSTATION BUILDING ROOF PLAN**

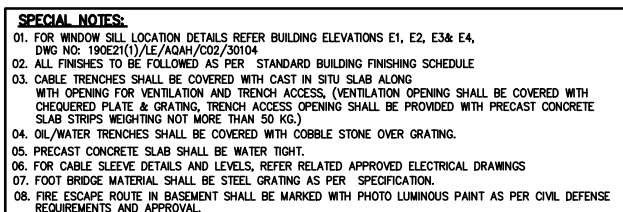
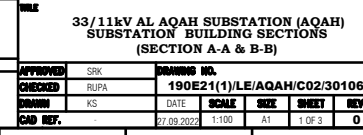
APPROVED
SRK
RUPA
KS
27.09.2022

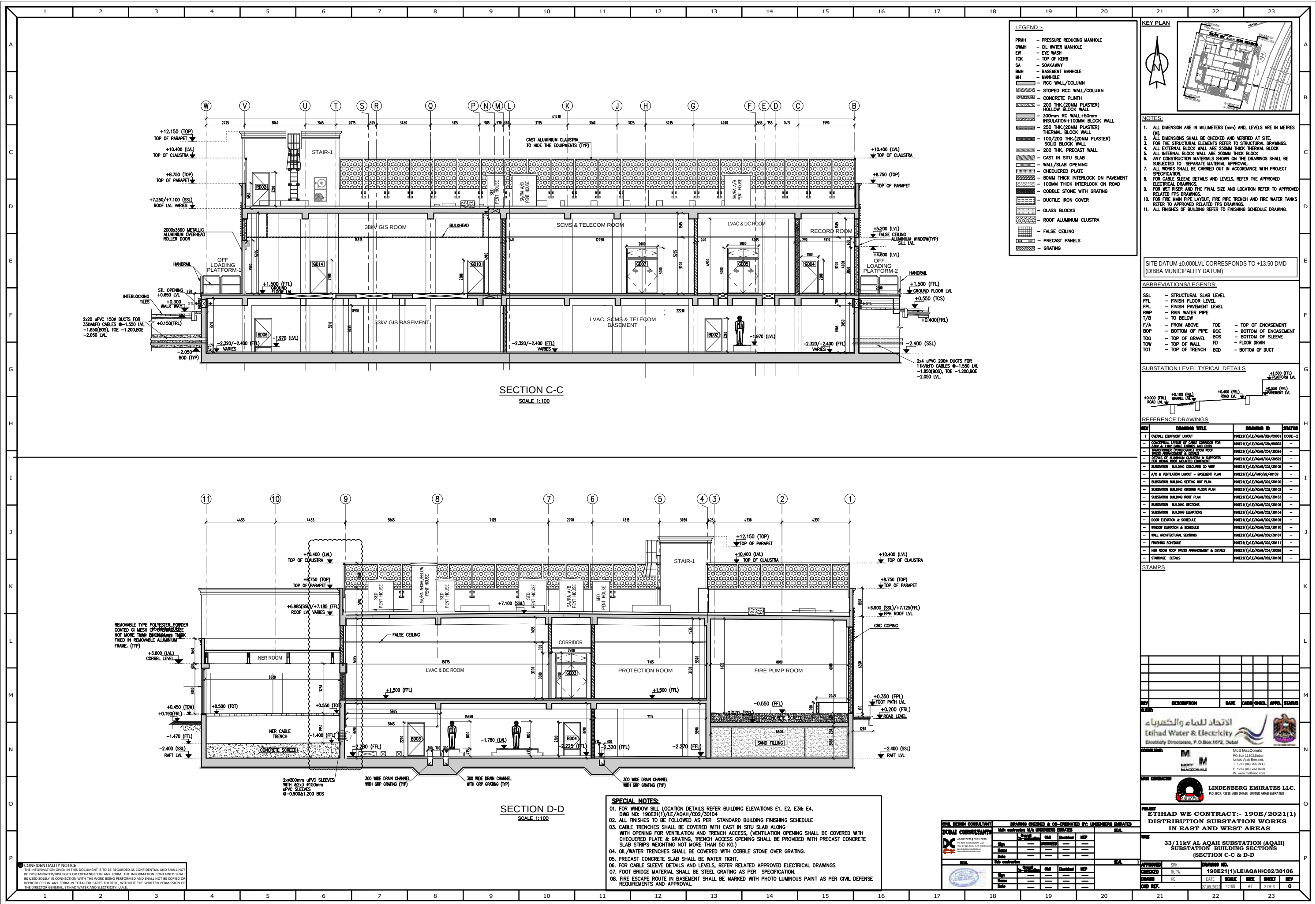
DRAWING NO.
190E/2021(1)/LE/AQH/C02/30103

SCALE
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SHEET
1

REV
0

[illegible]

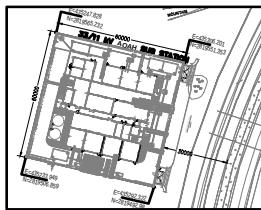




01. FOR WINDOW SILL LOCATION DETAILS REFER BUILDING ELEVATIONS E1, E2, E3& E4, DWG NO: 190E2(1)/LE/AAQH/C02/30104
02. ALL FINISHED TO BE ALLOWED AS PER STANDARD BUILDING FINISHING SCHEDULE
03. CABLE TRENCHES SHALL BE COVERED WITH CAST IN SITU SLAB ALONG WITH OPENING FOR VENTILATION AND TRENCH ACCESS. (VENTILATION OPENING SHALL BE COVERED WITH CHEQUERED PLATE & GRATING, TRENCH ACCESS OPENING SHALL BE PROVIDED WITH PRECAST CONCRETE SLAB NOT HEATING NOT MORE THAN 50 CM)
04. OIL/WATER TRENCHES SHALL BE COVERED WITH COBBLE STONE OVER GRATING.
05. PRECAST CONCRETE SLAB SHALL BE WATER TIGHT.
06. FOR CABLE SLEEVE DETAILS AND LEVELS, REFER RELATED APPROVED ELECTRICAL DRAWINGS
07. FOOT BRIDGE MATERIAL SHALL BE STEEL GRATING AS PER SPECIFICATION.
08. FIRE ESCAPE ROUTE IN PASSENGER SHALL BE MARKED WITH PHOTO LUMINOUS PAINT AS PER CIVIL DEFENSE REQUIREMENTS FOR APPROVAL

CONFIDENTIALITY NOTICE
THE INFORMATION GIVEN IN THIS DOCUMENT IS TO BE REGARDED AS CONFIDENTIAL AND SHALL NOT BE DISSEMINATED/DIVULGED OR EXCHANGED IN ANY FORM. THE INFORMATION CONTAINED SHALL BE USED SOLELY IN CONNECTION WITH THE WORK BEING PERFORMED AND SHALL NOT BE COPIED OR REPRODUCED IN ANY FORM IN TOTAL OR PARTS THEREOF, WITHOUT THE WRITTEN PERMISSION OF THE DIRECTOR GENERAL, ETHIOPIAN WATER AND ELECTRICITY, J1.A.5.

KEY PLAN



NOTES:

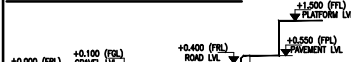
1. ALL DIMENSIONS ARE IN MILLIMETERS (mm) AND LEVELS ARE IN METRES (M).
2. ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED AT SITE.
3. FOR THE STRUCTURAL ELEMENTS REFER TO STRUCTURAL DRAWINGS.
4. ALL EXTERNAL BLOCK WALL ARE 250MM THICK THERMAL BLOCK.
5. ALL INTERNAL BLOCK ARE 150MM THICK BLOCK.
6. ANY CONSTRUCTION MATERIALS SHOWN ON THE DRAWINGS SHALL BE SUBJECTED TO SEPARATE MATERIAL APPROVAL.
7. ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH PROJECT SPECIFICATION.
8. FOR CABLE SLEAVE DETAILS AND LEVELS, REFER THE APPROVED ELECTRICAL DRAWINGS.
9. FOR MET RISKER AND FHC FINAL SIZE AND LOCATION REFER TO APPROVED RELATED DRAWINGS.
10. FOR FIRE MAIN PIPE LAYOUT, FIRE PIPE TRIMCH AND FIRE WATER TANKS REFER TO APPROVED RELATED FPS DRAWINGS.
11. ALL FINISHES OF BUILDING REFER TO FINISHING SCHEDULE DRAWING.

SITE DATUM ± 0.000 LVL CORRESPONDS TO +13.50 DMD
(DIBBA MUNICIPALITY DATUM)

ABBREVIATIONS/LEGENDS:

SSL	-	STRUCTURAL SLAB LEVEL		
FFL	-	FINISH FLOOR LEVEL		
FPL	-	FINISH PAVEMENT LEVEL		
RWP	-	RAIN WATER PIPE		
T/B	-	TO BELOW		
F/A	-	FROM ABOVE	TOE	- TOP OF ENCASEMENT
BOP	-	BOTTOM OF PIPE	BOE	- BOTTOM OF ENCASEMENT
T/G	-	TOP OF GRAVEL	BOS	- BOTTOM OF SLEEVE
T/W	-	TOP OF WALL	BD	- FLOOR DRAIN
TOT	-	TOP OF TRENCH	FD	- BOTTOM OF DUCT

SUBSTATION LEVEL TYPICAL DETAILS



REFERENCE DRAWINGS

1	DESCRIPTION TITLE	ISSUING DISC	STATUS
1	OVERALL EQUIPMENT LAYOUT	1002(1)(1)(A)/N/A/2009/0000/0000	COMPLETE
2	CONCEPTUAL LAYOUT OF CABLE CORROSION FOR ALL CABLE ROUTING AND JOINTS	1002(1)(1)(A)/N/A/2009/0000/0000	COMPLETE
3	TRANSFORMER, CABLE TRAYS, CABLE BUS, & TRUNKING	1002(1)(1)(A)/N/A/2009/0000/0000	COMPLETE
4	DETAILS OF BUILDING CABLE TRAYS & SUPPORTS	1002(1)(1)(A)/N/A/2009/0000/0000	COMPLETE
5	DETAILS OF BUILDING CABLE TRAYS & SUPPORTS	1002(1)(1)(A)/N/A/2009/0000/0000	COMPLETE
6	SUBSTATION BUILDING COLOURED 3D VIEWING	1002(1)(1)(A)/N/A/2009/0000/0000	COMPLETE
7	A/C & VENTILATION LAYOUT – IN-BUILDING PLAN	1002(1)(1)(A)/N/A/2009/0000/0000	COMPLETE
8	SUBSTATION BUILDING SETTING OUT PLAN	1002(1)(1)(A)/N/A/2009/0000/0000	COMPLETE
9	SUBSTATION BUILDING GROUND FLOOR PLAN	1002(1)(1)(A)/N/A/2009/0000/0000	COMPLETE
10	SUBSTATION BUILDING ROOF PLAN	1002(1)(1)(A)/N/A/2009/0000/0000	COMPLETE
11	SUBSTATION BUILDING SECTIONS	1002(1)(1)(A)/N/A/2009/0000/0000	COMPLETE
12	SUBSTATION BUILDING ELEVATIONS	1002(1)(1)(A)/N/A/2009/0000/0000	COMPLETE
13	DOOR ELEVATION & SCHEDULE	1002(1)(1)(A)/N/A/2009/0000/0000	COMPLETE
14	WINDOW ELEVATION & SCHEDULE	1002(1)(1)(A)/N/A/2009/0000/0000	COMPLETE
15	WALL ARCHITECTURAL, WALL & PARTITION	1002(1)(1)(A)/N/A/2009/0000/0000	COMPLETE
16	FRESHING SCHEDULE	1002(1)(1)(A)/N/A/2009/0000/0000	COMPLETE
17	NER ROOM ROOM TRUSS ARRANGEMENT & DETAILS	1002(1)(1)(A)/N/A/2009/0000/0000	COMPLETE
18	STAIRCASE DETAILS	1002(1)(1)(A)/N/A/2009/0000/0000	COMPLETE

STAMPS

REV	DESCRIPTION	DATE	CADD	CHKD.	APPD.	STATUS
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CLIENT:

الاتحاد للماء والكهرباء
Etihad Water & Electricity
Electricity Directorate, P.O. Box 1672, Dubai

CONTACT:  Mott MacDonald
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MAIN CONTRACTOR



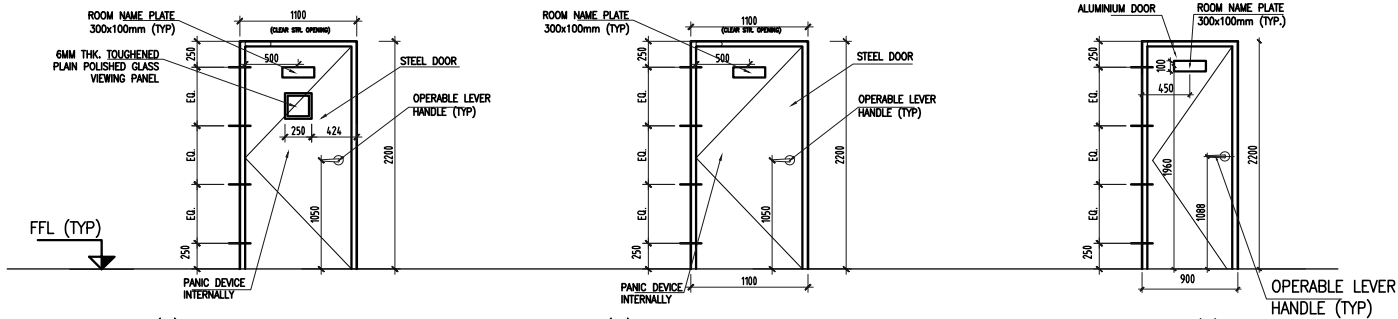
LINDENBERG EMIRATES LLC
P.O. BOX: 42630, ABU DHABI, UNITED ARAB EMIRATES

PROJECT	ETIHAD WE CONTRACT:- 190E/2021(1 DISTRIBUTION SUBSTATION WORKS IN EAST AND WEST AREAS
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33/11kV AL AQAH SUBSTATION (AQAH)
SUBSTATION BUILDING SECTIONS
(SECTION E-E)

APPROVED	SRK	DRAWING NO.				
CHECKED	RIIPA	190E21(1)/LE/AQAH/C02/30106				
DRAWN	KS	DATE	SCALE	SIZE	SHEET	REV
CAD REF.	-	27.09.2023	1:100	A1	3 OF 3	0

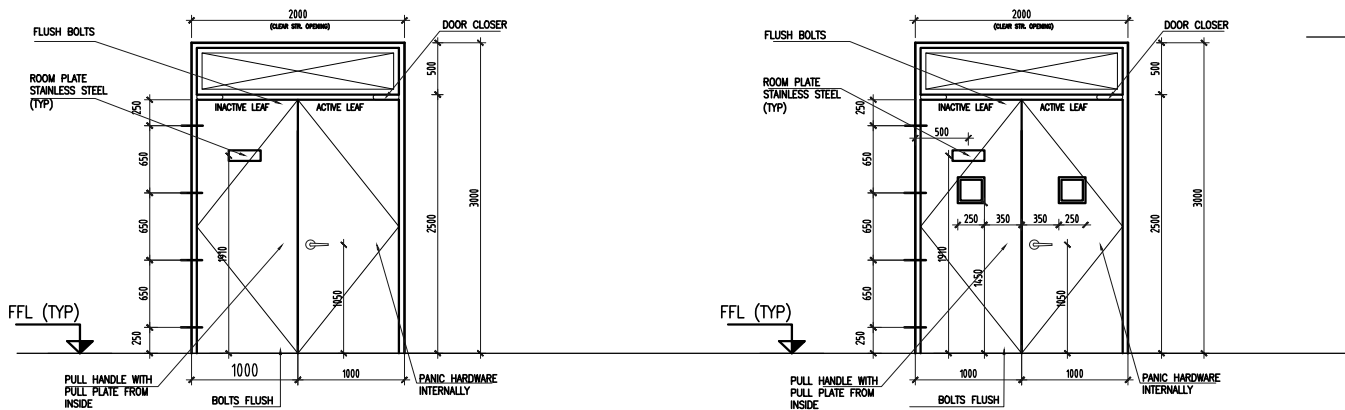
SL. NO.	FINISHED FLOOR LEVEL	DESCRIPTION/ DOOR LOCATION	DOOR TYPE	DOOR SIZE	DIMENSIONS MILLIMETERS	MATERIAL	INTERNAL/ EXTERNAL	DOOR HUNG	FIRE RATING	HINGES NOS.	VISION PANEL	PANIC EXIT DEVICE	DOOR CLOSER	ROOM PLATE	LEVER HANDLE	PULL HANDLE WITH PULL PLATE	PUSH PLATE OR KNOB	MORTICE LOCK	FLUSH BOLT	FLOOR SOCKET	DOOR STOPS	DOOR SELECTOR	DOOR THRESHOLD WITH AIR TIGHT RUBBER CASKET		
																								MARBLE	ALUMINUM WITH SMOKE SEAL
BASEMENT																									
BD01	EL(-)2.050	LWAC, SCMS & TELECOM BASEMENT TO STAIR-2	A	SINGLE	1100 x 2200	FIRE RATED STEEL DOOR	INTERNAL	RH	2Hr	4	YES	1	1	2	1	-	-	-	-	-	-	1	-	-	YES
BD02	EL(-)2.350	PROTECTION BASEMENT TO LWAC, SCMS & TELECOM BASEMENT	A	SINGLE	1100 x 2200	FIRE RATED STEEL DOOR	INTERNAL	LHR	2Hr	4	YES	1	1	2	1	-	-	-	-	-	-	1	-	-	YES
BD03	EL(-)2.350	11W GIS BASEMENT TO LWAC, SCMS & TELECOM BASEMENT	A	SINGLE	1100 x 2200	FIRE RATED STEEL DOOR	INTERNAL	RHR	2Hr	4	YES	1	1	2	1	-	-	-	-	-	-	1	-	-	YES
BD04	EL(-)2.350	33W GIS BASEMENT TO LWAC, SCMS & TELECOM BASEMENT	A	SINGLE	1100 x 2200	FIRE RATED STEEL DOOR	INTERNAL	RHR	2Hr	4	YES	1	1	2	1	-	-	-	-	-	-	1	-	-	YES
BD05	EL(-)2.050	PROTECTION BASEMENT TO STAIR-1	A	SINGLE	1100 x 2200	FIRE RATED STEEL DOOR	INTERNAL	LH	2Hr	4	YES	1	1	2	1	-	-	-	-	-	-	1	-	-	YES
BD06	EL(-)1.900	33W GIS BASEMENT TO PROTECTION BASEMENT	A	SINGLE	1100 x 2200	FIRE RATED STEEL DOOR	INTERNAL	RHR	2Hr	4	YES	1	1	2	1	-	-	-	-	-	-	1	-	-	YES
BD07	EL(-)1.900	11W GIS BASEMENT TO 33W GIS BASEMENT	A	SINGLE	1100 x 2200	FIRE RATED STEEL DOOR	INTERNAL	RHR	2Hr	4	YES	1	1	2	1	-	-	-	-	-	-	1	-	-	YES
GROUND FLOOR																									
GD01	EL(+0.600)	STAIR-2 TO WALKWAY	B	SINGLE	1100 x 2200	FIRE RATED STEEL DOOR	EXTERNAL	RHR	2Hr	4	-	1	1	1	1	1	-	-	-	-	1	-	YES	YES	
GD02	EL(+1.500)	AIR LOCK ROOM-2 TO OFF LOADING PLATFORM-2	C	DOUBLE	2000 x 3000	FIRE RATED STEEL DOOR DOUBLE SHUTTER	EXTERNAL	RHRA	2Hr	8	-	1	2	1	1	1	1	-	1	1	2	1	YES	YES	
GD03	EL(+1.500)	CORRIDOR TO AIRLOCK ROOM	D	DOUBLE	2000 x 3000	FIRE RATED STEEL DOOR DOUBLE SHUTTER	INTERNAL	LHA	2Hr	8	YES	1	2	2	1	1	1	-	1	1	2	1	-	YES	
GD04	EL(+1.500)	RECORD ROOM TO AIR LOCK ROOM-2	A	SINGLE	1100 x 2200	FIRE RATED STEEL DOOR	INTERNAL	RHR	2Hr	4	YES	1	1	2	1	-	-	-	-	-	1	-	-	YES	
GD05	EL(+1.500)	LWAC ROOM TO CORRIDOR	D	DOUBLE	2000 x 3000	FIRE RATED STEEL DOOR DOUBLE SHUTTER	INTERNAL	RHRA	2Hr	8	YES	1	2	2	1	1	1	-	1	1	2	1	-	YES	
GD06	EL(+1.500)	PROTECTION ROOM TO CORRIDOR	A	SINGLE	1100 x 2200	FIRE RATED STEEL DOOR	INTERNAL	LHR	2Hr	4	YES	1	1	2	1	-	-	-	-	-	1	-	-	YES	
GD07	EL(+1.500)	SCMS & TELECOM ROOM TO CORRIDOR	D	DOUBLE	2000 x 3000	FIRE RATED STEEL DOOR DOUBLE SHUTTER	INTERNAL	RHRA	2Hr	8	YES	1	2	2	1	1	1	-	1	1	2	1	-	YES	
GD08	EL(+1.500)	PROTECTION ROOM TO CORRIDOR	D	DOUBLE	2000 x 3000	FIRE RATED STEEL DOOR DOUBLE SHUTTER	INTERNAL	RHRA	2Hr	8	YES	1	2	2	1	1	1	-	1	1	2	1	-	YES	
GD09	EL(+1.500)	11W GIS ROOM TO 33W GIS ROOM	A	SINGLE	1100 x 2200	FIRE RATED STEEL DOOR	INTERNAL	RH	2Hr	4	YES	1	1	2	1	-	-	-	-	-	1	-	-	YES	
GD10	EL(+1.500)	33W GIS ROOM TO CORRIDOR	A	SINGLE	1100 x 2200	FIRE RATED STEEL DOOR	INTERNAL	LHR	2Hr	4	YES	1	1	2	1	-	-	-	-	-	1	-	-	YES	
GD11	EL(+1.500)	BATTERY ROOM-2 TO CORRIDOR	A	SINGLE	1100 x 2200	FIRE RATED STEEL DOOR	INTERNAL	RHR	2Hr	4	YES	1	1	2	1	-	-	-	-	-	1	-	YES	YES	
GD12	EL(+1.500)	BATTERY ROOM-1 TO CORRIDOR	A	SINGLE	1100 x 2200	FIRE RATED STEEL DOOR	INTERNAL	RHR	2Hr	4	YES	1	1	2	1	-	-	-	-	-	1	-	YES	YES	
GD13	EL(+1.500)	CCTV ROOM TO CORRIDOR	A	SINGLE	1100 x 2200	FIRE RATED STEEL DOOR	INTERNAL	RHR	2Hr	4	YES	1	1	2	1	-	-	-	-	-	1	-	-	YES	
GD14	EL(+1.500)	33W GIS ROOM TO CORRIDOR	A	SINGLE	1100 x 2200	FIRE RATED STEEL DOOR	INTERNAL	LHR	2Hr	4	YES	1	1	2	1	-	-	-	-	-	1	-	-	YES	
GD15	EL(+1.500)	CORRIDOR TO AIR LOCK ROOM-1	D	DOUBLE	2000 x 3000	FIRE RATED STEEL DOOR DOUBLE SHUTTER	INTERNAL	LHA	2Hr	8	YES	1	2	2	1	1	1	-	1	1	2	1	-	YES	
GD16	EL(+1.500)	11W GIS ROOM TO 33W GIS ROOM	A	SINGLE	1100 x 2200	FIRE RATED STEEL DOOR	INTERNAL	LH	2Hr	4	YES	1	1	2	1	-	-	-	-	-	1	-	-	YES	
GD17	EL(+1.500)	AIR LOCK ROOM 1 TO OFF LOADING PLATFORM-1	C	DOUBLE	2000 x 3000	FIRE RATED STEEL DOOR DOUBLE SHUTTER	EXTERNAL	RHRA	2Hr	8	-	1	2	1	1	1	1	-	1	1	2	1	YES	YES	
GD18	EL(+1.500)	AIR LOCK ROOM - 1 TO TOILET	A	SINGLE	1100 x 2200	FIRE RATED STEEL DOOR	INTERNAL	LHR	2Hr	4	YES	1	1	2	1	-	-	-	-	-	1	-	-	YES	
GD19	EL(+0.400)	STAIR-1 TO WALKWAY	B	SINGLE	1100 x 2200	FIRE RATED STEEL DOOR	EXTERNAL	LHR	2Hr	4	-	1	1	1	1	1	1	-	-	-	1	-	YES	YES	
RS01	EL(+1.500)	33W GIS ROOM TO OFF LOADING PLATFORM-1	E	-	2000 x 3500	STEEL	EXTERNAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	YES	
RS02	EL(+1.500)	11W GIS ROOM TO OFF LOADING PLATFORM-1	E	-	2000 x 3500	STEEL	EXTERNAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	YES	
ROOF FLOOR																									
RD01	EL(+2.600)	ROOF TO STAIR-2	B	SINGLE	1100 x 2200	FIRE RATED STEEL DOOR	EXTERNAL	RH	2Hr	4	-	1	1	1	1	1	-	-	-	-	1	-	YES	YES	
RD02	EL(+2.600)	ROOF TO STAIR-1	B	SINGLE	1100 x 2200	FIRE RATED STEEL DOOR	EXTERNAL	RH	2Hr	4	-	1	1	1	1	1	-	-	-	-	1	-	YES	YES	
FIRE PUMP ROOM																									
FG001	EL(+0.420)	FIRE PUMP ROOM TO OUT SIDE	D	DOUBLE	2000 x 3000	FIRE RATED STEEL DOOR DOUBLE SHUTTER	EXTERNAL	RHRA	2Hr	8	YES	1	2	1	1	1	1	-	1	1	2	1	YES	YES	



TYPE (A) WITH VISION PANEL
TYPICAL DOOR ELEVATION (1100X2200)

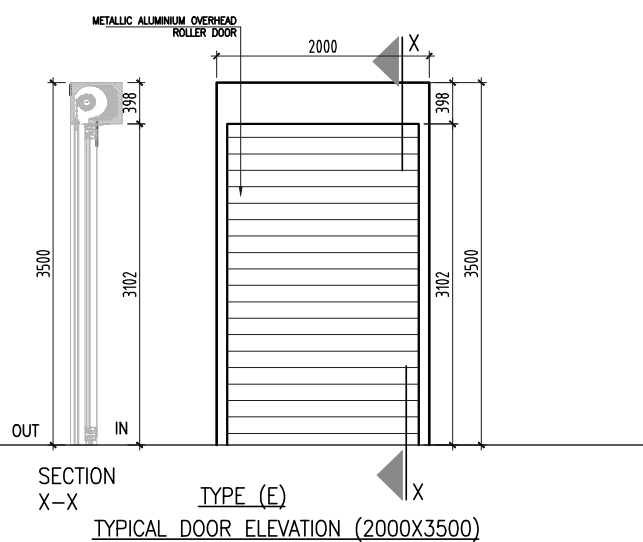
TYPE (B) WITHOUT VISION PANEL
TYPICAL DOOR ELEVATION (1100X2200)

TYPE (F)
TOILET DOOR ELEVATION (900X200)

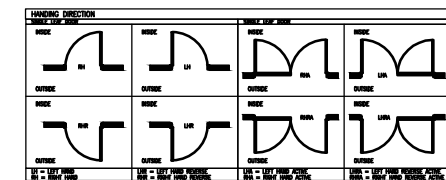


TYPE (C) WITHOUT VISION PANEL
TYPICAL DOOR ELEVATION (2000X3000)

TYPE (D) WITH VISION PANEL
TYPICAL DOOR ELEVATION (2000X3000)

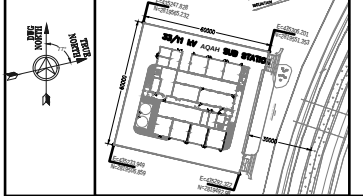


SECTION X-X
TYPE (E)
TYPICAL DOOR ELEVATION (2000X3500)



NO.	DESCRIPTION	DATE	CAUD	CHD.	APPL.	STATUS
1	ISSUED FOR APPROVAL	28.09.2022	MY	RUPA	SRK	
2	FOR APPROVAL	28.09.2022	MY	RUPA	SRK	
3	FOR APPROVAL	28.09.2022	MY	RUPA	SRK	
4	FOR APPROVAL	28.09.2022	MY	RUPA	SRK	
5	FOR APPROVAL	28.09.2022	MY	RUPA	SRK	
6	FOR APPROVAL	28.09.2022	MY	RUPA	SRK	
7	FOR APPROVAL	28.09.2022	MY	RUPA	SRK	
8	FOR APPROVAL	28.09.2022	MY	RUPA	SRK	
9	FOR APPROVAL	28.09.2022	MY	RUPA	SRK	
10	FOR APPROVAL	28.09.2022	MY	RUPA	SRK	
11	FOR APPROVAL	28.09.2022	MY	RUPA	SRK	
12	FOR APPROVAL	28.09.2022	MY	RUPA	SRK	
13	FOR APPROVAL	28.09.2022	MY	RUPA	SRK	
14	FOR APPROVAL	28.09.2022	MY	RUPA	SRK	
15	FOR APPROVAL	28.09.2022	MY	RUPA	SRK	
16	FOR APPROVAL	28.09.2022	MY	RUPA	SRK	
17	FOR APPROVAL	28.09.2022	MY	RUPA	SRK	
18	FOR APPROVAL	28.09.2022	MY	RUPA	SRK	
19	FOR APPROVAL	28.09.2022	MY	RUPA	SRK	
20	FOR APPROVAL	28.09.2022	MY	RUPA	SRK	
21	FOR APPROVAL	28.09.2022	MY	RUPA	SRK	
22	FOR APPROVAL	28.09.2022	MY	RUPA	SRK	
23	FOR APPROVAL	28.09.2022	MY	RUPA	SRK	

KEY PLAN



NOTES:

- ALL OPENINGS SHOWN IN THE DRAWINGS ARE CLEAR STRUCTURAL OPENINGS.
- ALL FIRE RATED DOORS FULFILL CIVIL DEFENSE REQUIREMENTS.
- FIRE RATING OF DOOR, FRAME, HARDWARE AND OTHER ACCESSORIES ARE MINIMUM 120 MINUTES.
- THE TOP AND BOTTOM EDGES OF ALL METAL DOORS ARE CLOSED TO PROVIDE A WEATHER SEAL.
- WEATHER SEALING GASKET AROUND THE DOOR LEAF ARE PROVIDED TO PREVENT INGRESS OF DUST/MATERIAL OF GASKET IN NON-COMBUSTIBLE OR LISTED TYPE.
- ALL NECESSARY FASTENINGS, CLIPS, PINS, GLAZING BEADS AND ANCHORS ARE HOT DIP GALVANIZED OR PHOSPHATE TREATED.
- PANIC DEVICES ARE INSTALLED FOR ALL EMERGENCY EXITS BOTH SINGLE AND DOUBLE DOORS.
- DOOR CLOSERS FOR ALL DOORS ARE FIXED FROM INSIDE.
- DOOR SELECTORS ARE PROVIDED FOR ALL DOUBLE DOORS.
- THE LOCKS/CYLINDERS ARE APPLICABLE FOR THE APPROPRIATE MASTER KEY SYSTEM.
- ALL THE STEEL DOORS ARE INTERCONNECTED TO THE STATION EARTHING SYSTEM.
- ALL THE DOORS ARE SEMI-SEMI CONSTRUCTION.
- THE DOOR SHUTTER IS MINIMUM 44mm THICK INSULATED DOUBLE SKINNED AND GALVANIZED & FINISHED 1.50mm THK. STEEL SHEET SHUTTERS.
- THE DOOR GAPS/CLEARANCES AS PER SPECIFICATIONS ARE PROVIDED WITH AIRTIGHT SEAL.
- THE MARKER THRESHOLD WHICH IS MINIMUM 30mm THICK ESPECIALLY FOR EXTERNAL DOORS AND BATTERY ROOM DOORS.
- ALL STEEL DOORS ARE GALVANIZED AND FINISHED WITH WET COAT PAINTING SYSTEM OR POWDER COATING AS AT APPROVAL.
- THE THICKNESS OF METAL DOOR FRAMES ARE MINIMUM 2 SHEETS.

ABBREVIATIONS/LEGENDS:

- SCRD - SCORED LEVEL
FTL - FINISHED FLOOR LEVEL
TOC - TOP OF CONCRETE
FRL - FINISHED ROAD LEVEL
FPL - FINISHED PAVEMENT LEVEL
FCL - FALSE CEILING LEVEL
TOP - TOP OF PARAPET
RWP - RAIN WATER PIPE
BSP - BOTTOM OF PIPE
BOE - BOTTOM OF ENCASEMENT
TOE - TOP OF ENCASEMENT
BOO - BOTTOM OF OPENING
WSL - WINDOW SILL LEVEL

SITE DATUM ± 0.000 LVL CORRESPONDS TO
 $+13.50$ DMD (DIBBA MUNICIPALITY DATUM)

REFERENCE DRAWINGS

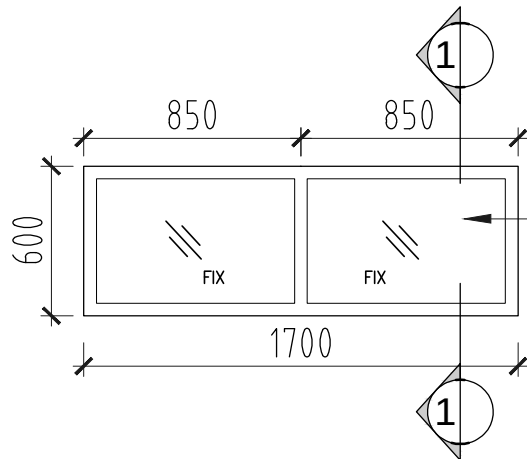
REV	DRAWING TITLE	DRAWING NO.	STATUS
1	OVERALL EQUIPMENT LAYOUT	190E21(1)/LE/AQAH/020/0001	CODE-2
2	CABLE ROUTE LAYOUT 33KV & 11KV	190E21(1)/LE/AQAH/020/0005	-
3	SUBSTATION BUILDING SETTING OUT PLAN	190E21(1)/LE/AQAH/020/0010	-
4	SUBSTATION BUILDING BASEMENT FLOOR PLAN	190E21(1)/LE/AQAH/020/0011	-
5	SUBSTATION BUILDING ROOF PLAN	190E21(1)/LE/AQAH/020/0013	-
6	SUBSTATION BUILDING SECTIONS	190E21(1)/LE/AQAH/020/0014	-
7	SUBSTATION BUILDING ELEVATIONS (ALL SIDES)	190E21(1)/LE/AQAH/020/0014	-
8	DOOR ELEVATION & SCHEDULE	190E21(1)/LE/AQAH/020/0018	-
9	WINDOW ELEVATION & SCHEDULE	190E21(1)/LE/AQAH/020/0011	-
10	WALL ARCHITECTURAL SECTIONS	190E21(1)/LE/AQAH/020/0017	-
11	FINISHING SCHEDULE	190E21(1)/LE/AQAH/020/0011	-
12	GLASS BLOCK WINDOW CONSTRUCTION DETAILS	190E21(1)/LE/AQAH/020/0013	-
13	PLATE ELEVATION AND SECTIONS OF FIRE PUMP ROOM	190E21(1)/LE/AQAH/020/0014	-
14	BOUNDARY WALL & ENCASUREMENT SETTING OUT PLAN	190E21(1)/LE/AQAH/020/0012	-
15	BOUNDARY WALL ELEVATIONS	190E21(1)/LE/AQAH/020/0012	-
16	BOUNDARY WALL & ENCASUREMENT TYPICAL DETAILS	190E21(1)/LE/AQAH/020/0012	-
17	FIRE WATER TANK FOUNDATION OR DRAWING	190E21(1)/LE/AQAH/020/0002	-
18	LVS OR WATER COLLECTION TANK - SPECIAL REQUIREMENTS	190E21(1)/LE/AQAH/020/0002	-
19	TOTAL & BATTERY ROOM DETAILS	190E21(1)/LE/AQAH/020/0012	-
20	INTERNAL ROAD LAYOUT & DETAILS	190E21(1)/LE/AQAH/020/0012	-
21	SKINWARE DETAILS	190E21(1)/LE/AQAH/020/0018	-

STAMPS

ISSUED FOR APPROVAL		28.09.2022	MY	RUPA	SRK	
REV	DESCRIPTION	DATE	CAUD	CHD.	APPL.	STATUS
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2	FOR APPROVAL	28.09.2022	MY	RUPA	SRK	
3	FOR APPROVAL	28.09.2022	MY	RUPA	SRK	
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13	FOR APPROVAL	28.09.2022	MY	RUPA	SRK	
14	FOR APPROVAL	28.09.2022	MY	RUPA	SRK	
15	FOR APPROVAL	28.09.2022	MY	RUPA	SRK	
16	FOR APPROVAL	28.09.2022	MY	RUPA	SRK	
17	FOR APPROVAL	28.09.2022	MY	RUPA	SRK	
18	FOR APPROVAL	28.09.2022	MY	RUPA	SRK	
19	FOR APPROVAL	28.09.2022	MY	RUPA	SRK	
20	FOR APPROVAL	28.09.2022	MY	RUPA	SRK	
21						

WINDOW SCHEDULE TABLE:

WINDOW No.	WINDOW TYPE	WINDOW LOCATION	SILL HEIGHT (FROM ±0.00)	OPENING SIZE		MATERIALS		ELEVATION
				WIDTH	HEIGHT	FRAME	WINDOW	
33/11kV SWITCHGEAR BUILDING								
GROUND FLOOR								
GW01	W01	STAIRCASE-1	+2.695	1700	600	ALUMINIUM	DOUBLE GLAZED WINDOW	ELEVATION-1
GW02	W01	CCTV ROOM	+4.600	1700	600	ALUMINIUM	DOUBLE GLAZED WINDOW	ELEVATION-1
GW03	W01	AIR LOCK ROOM-1	+4.600	1700	600	ALUMINIUM	DOUBLE GLAZED WINDOW	ELEVATION-1
GW04	W01	33kV GIS ROOM	+4.600	1700	600	ALUMINIUM	DOUBLE GLAZED WINDOW	ELEVATION-1
GW05	W01	11kV GIS ROOM	+4.600	1700	600	ALUMINIUM	DOUBLE GLAZED WINDOW	ELEVATION-1
GW06	W01	CORRIDOR	+4.600	1700	600	ALUMINIUM	DOUBLE GLAZED WINDOW	ELEVATION-2
GW07	W01	AIR LOCK ROOM-2	+4.600	1700	600	ALUMINIUM	DOUBLE GLAZED WINDOW	ELEVATION-3
GW08	W01	RECORD ROOM	+4.600	1700	600	ALUMINIUM	DOUBLE GLAZED WINDOW	ELEVATION-3
GW09	W01	STAIRCASE-2	+2.695	1700	600	ALUMINIUM	DOUBLE GLAZED WINDOW	ELEVATION-3
GW13	W01	STAIRCASE-1	+6.141	1700	600	ALUMINIUM	DOUBLE GLAZED WINDOW	ELEVATION-1
GW14	W01	STAIRCASE-1	+6.141	1700	600	ALUMINIUM	DOUBLE GLAZED WINDOW	ELEVATION-2
GW15	W01	STAIRCASE-2	+2.695	1700	600	ALUMINIUM	DOUBLE GLAZED WINDOW	ELEVATION-3
GW16	W01	STAIRCASE-2	+6.141	1700	600	ALUMINIUM	DOUBLE GLAZED WINDOW	ELEVATION-4
GW17	W01	11kV GIS ROOM	+4.600	1700	600	ALUMINIUM	DOUBLE GLAZED WINDOW	ELEVATION-4
GW18	W01	PROTECTION ROOM	+4.600	1700	600	ALUMINIUM	DOUBLE GLAZED WINDOW	ELEVATION-2
GW19	DW01	PROTECTION ROOM	+4.600	1700	600	ALUMINIUM	DOUBLE GLAZED WINDOW	ELEVATION-2
GW20	W01	PROTECTION ROOM	+4.600	1700	600	ALUMINIUM	DOUBLE GLAZED WINDOW	ELEVATION-2
GW21	DW01	BATTERY ROOM - 2	+4.600	1700	600	ALUMINIUM	DOUBLE GLAZED WINDOW	ELEVATION-2
FIRE PUMP ROOM								
GW10	W01	FIRE PUMP ROOM	+4.600	1700	600	ALUMINIUM	DOUBLE GLAZED WINDOW	ELEVATION-1
GW11	W01		+4.600	1700	600	ALUMINIUM	DOUBLE GLAZED WINDOW	ELEVATION-3
GW12	W01		+4.600	1700	600	ALUMINIUM	DOUBLE GLAZED WINDOW	ELEVATION-3

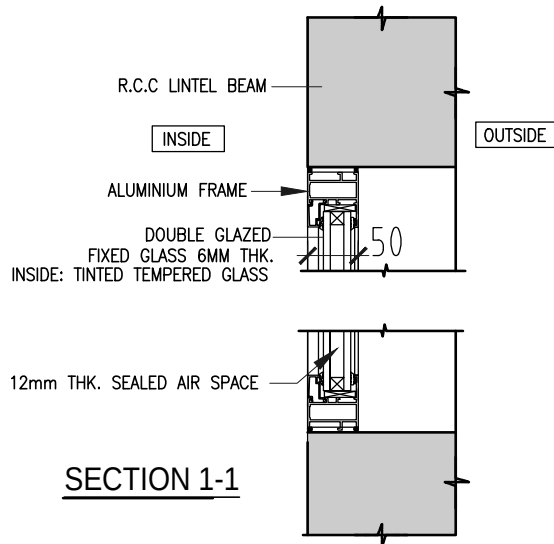


ELEVATION OF TYPE (W1) WINDOW

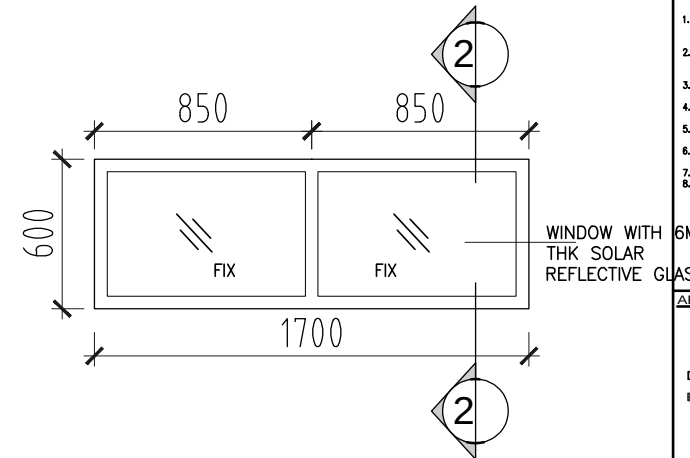
WINDOW FRAMES ARE TO BE OF HEAVY DUTY - TEMPER T6 ANODIZED ALUMINIUM ALLOY WITH POLYESTER POWDER COATED COLOR COAT FINISH

6MM THK DOUBLE TOUGHENED POLISHED PLATE GLASS (TYP)

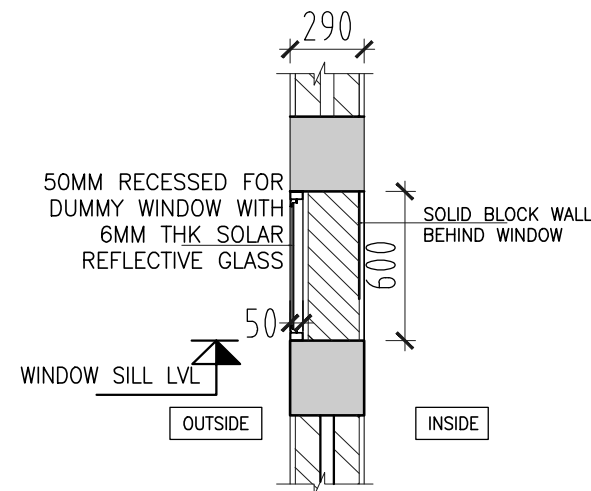
INSIDE: TINTED TEMPERED GLASS



SECTION 1-1

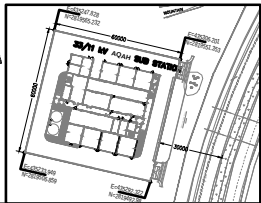


ELEVATION OF TYPE-W2 DUMMY WINDOW



SECTION 2-2

KEY PLAN



NOTES:

- THE WINDOWS ARE DESIGNED AND ERECTED SO THAT CLEANING AND MAINTENANCE COULD BE CARRIED OUT FROM INSIDE OF THE SUBSTATION BUILDING.
- THE WINDOW FRAMES MADE OF EXTRUDED ALUMINIUM BARS AND GLAZING SECTIONS HAVE A CHEMICAL COMPOSITION AND MANUFACTURING TECHNIQUES USED.
- THE ALL METALLIC WINDOWS AND ITS COMPONENTS ARE PROPERLY EARTHED.
- THE FIRE RATING REQUIRED FOR WINDOW GLASS PANELS AND GLASS BLOCKS ARE AS PER SPECIFICATION.
- EXTERNAL FACE OF THE WINDOW GLASS ARE TINTED REFLECTIVE TYPE.
- ALL ALUMINIUM WORKS ARE POLYESTER POWDER COATED HEAVY DUTY ALUMINIUM SECTIONS OF 2MM THICKNESS.
- WINDOWS ARE WELL RECESSED INTO THE WALLS.
- GLASS ARE FIXED WITH UV PROTECTED SEALANT.

ABBREVIATIONS/LEGENDS:

- FFL - FINISHED FLOOR LEVEL
LVL - LEVEL
EL - ELEVATION LEVEL
W1 - WINDOW
--- - RCC WALL/COLUMN
--- - 250 THK/(20MM PLASTER) THERMAL BLOCK WALL

SITE DATUM ±0.000LVL CORRESPONDS TO +13.50 DMD (DIBBA MUNICIPALITY DATUM)

REFERENCE DRAWINGS

REV	DRAWING TITLE	DRAWING NO.	STATUS
1	OVERALL EQUIPMENT LAYOUT	190E21(1)/LE/AQAH/020/00001	CODE-2
0	CABLE ROUTE LAYOUT 33KV & 11KV	190E21(1)/LE/AQAH/020/13805	-
0	SUBSTATION BUILDING SETTING OUT PLAN	190E21(1)/LE/AQAH/020/30100	-
0	SUBSTATION BUILDING ELEVATION FLOOR PLAN	190E21(1)/LE/AQAH/020/30101	-
0	SUBSTATION BUILDING ROOF PLAN	190E21(1)/LE/AQAH/020/30103	-
0	SUBSTATION BUILDING SECTIONS OF ALL ROOMS LOCATIONS	190E21(1)/LE/AQAH/020/30108	-
0	SUBSTATION BUILDING ELEVATIONS (ALL SIDES)	190E21(1)/LE/AQAH/020/30104	-
0	DOOR ELEVATION & SCHEDULE	190E21(1)/LE/AQAH/020/30109	-
0	WINDOW ELEVATION & SCHEDULE	190E21(1)/LE/AQAH/020/30110	-
0	WALL ARCHITECTURAL SECTIONS	190E21(1)/LE/AQAH/020/30107	-
0	FINISHING SCHEDULE	190E21(1)/LE/AQAH/020/30111	-
0	GLASS BLOCK WINDOW CONSTRUCTION DETAILS	190E21(1)/LE/AQAH/020/30113	-
0	PLAN, ELEVATION AND SECTIONS OF FIRE PUMP ROOM	190E21(1)/LE/AQAH/020/30114	-
0	BOUNDARY WALL & EMBANKMENT SETTING OUT PLAN	190E21(1)/LE/AQAH/020/30120	-
0	BOUNDARY WALL ELEVATIONS	190E21(1)/LE/AQAH/020/30121	-
0	BOUNDARY WALL & EMBANKMENT TYPICAL DETAILS	190E21(1)/LE/AQAH/020/30122	-
0	FIRE WATER TANK FOUNDATION GA DRAWING	190E21(1)/LE/AQAH/020/30200	-
0	U/S & W/S COLLECTION TANK- FOUNDATION GA DRAWING	190E21(1)/LE/AQAH/020/30202	-
0	TRAIT & BATTERY ROOM DETAILS	190E21(1)/LE/AQAH/020/30112	-
0	INTERNAL ROAD LAYOUT & DETAILS	190E21(1)/LE/AQAH/020/30125	-
0	STAIRCASE DETAILS	190E21(1)/LE/AQAH/020/30108	-

STAMPS

0	ISSUED FOR APPROVAL	28.09.2022	BY	RUPA	SRK
REV	DESCRIPTION	DATE	CADD	CHNG.	APPR.

CLIENT: الاتحاد للمياه والكهرباء
Etihad Water & Electricity
Electricity Directorate, P.O.Box:1072, Dubai

CONSULTANT: Mott MacDonald
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United Arab Emirates
T: +971 (04) 206 9111
F: +971 (04) 202 8000
W: www.mottmac.com

DESIGNER: LINDENBERG EMIRATES LLC.
P.O. BOX: 4263, ABU DHABI, UNITED ARAB EMIRATES

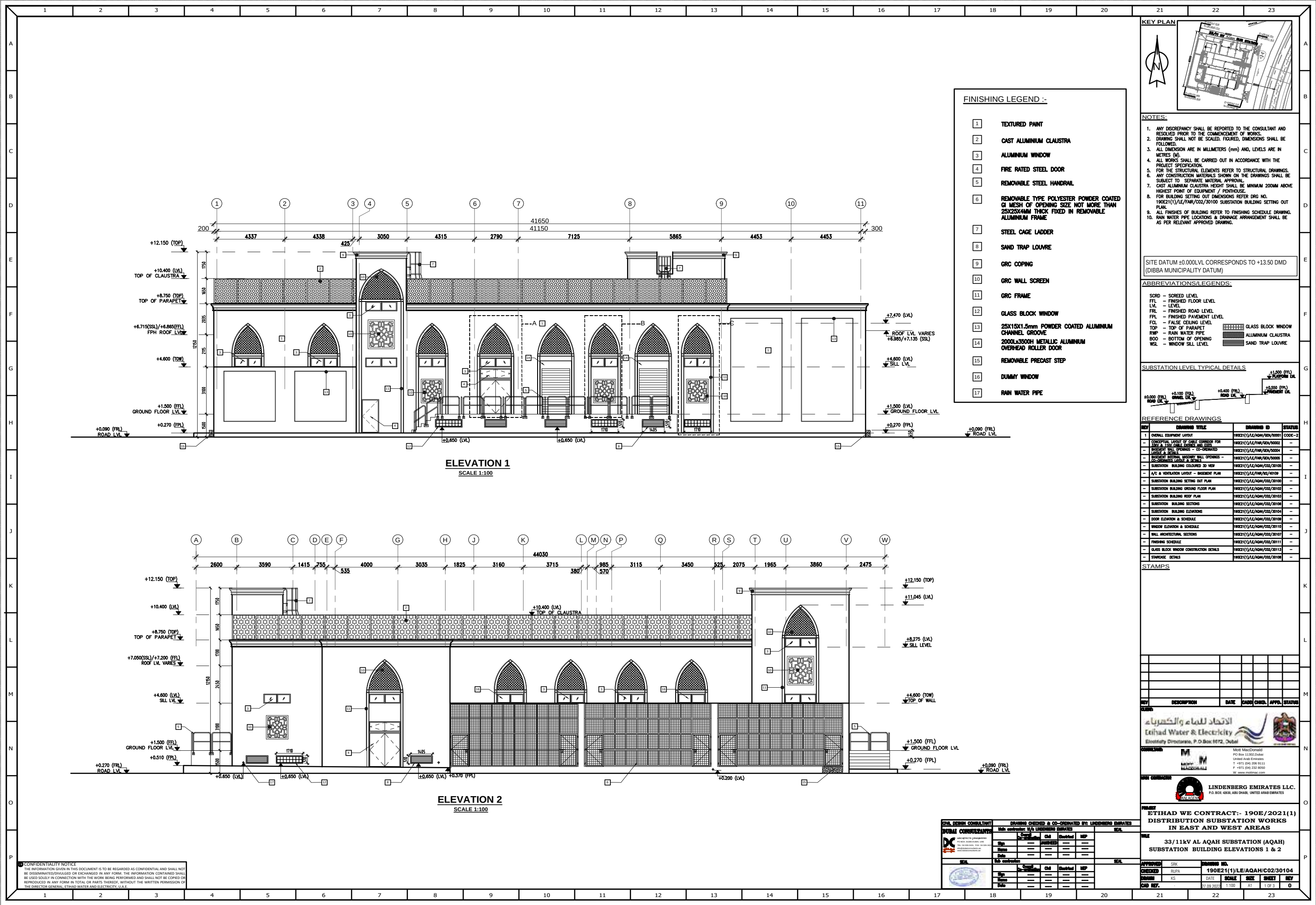
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DISTRIBUTION SUBSTATION WORKS
IN EAST AND WEST AREAS

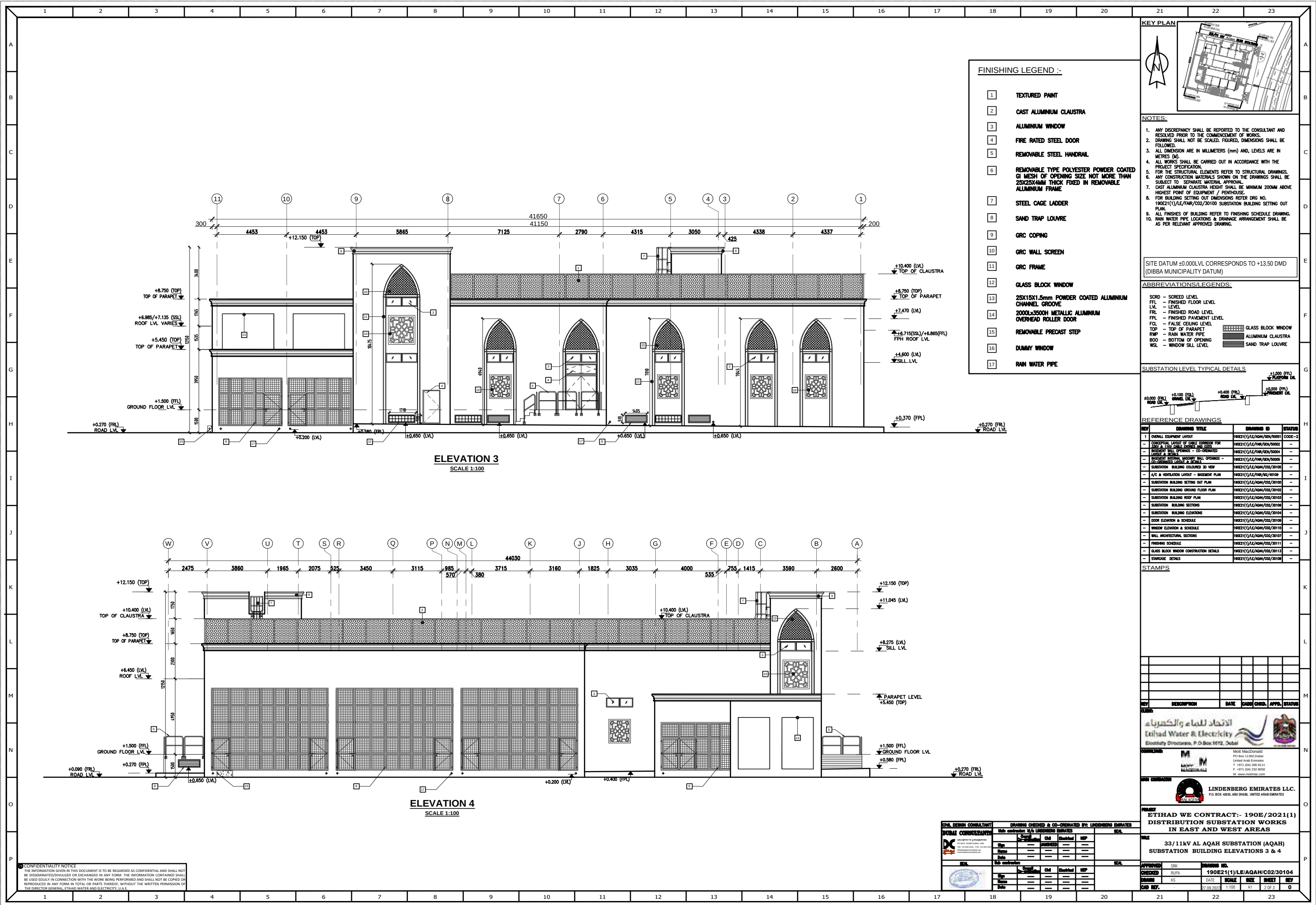
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WINDOW ELEVATION & SCHEDULE

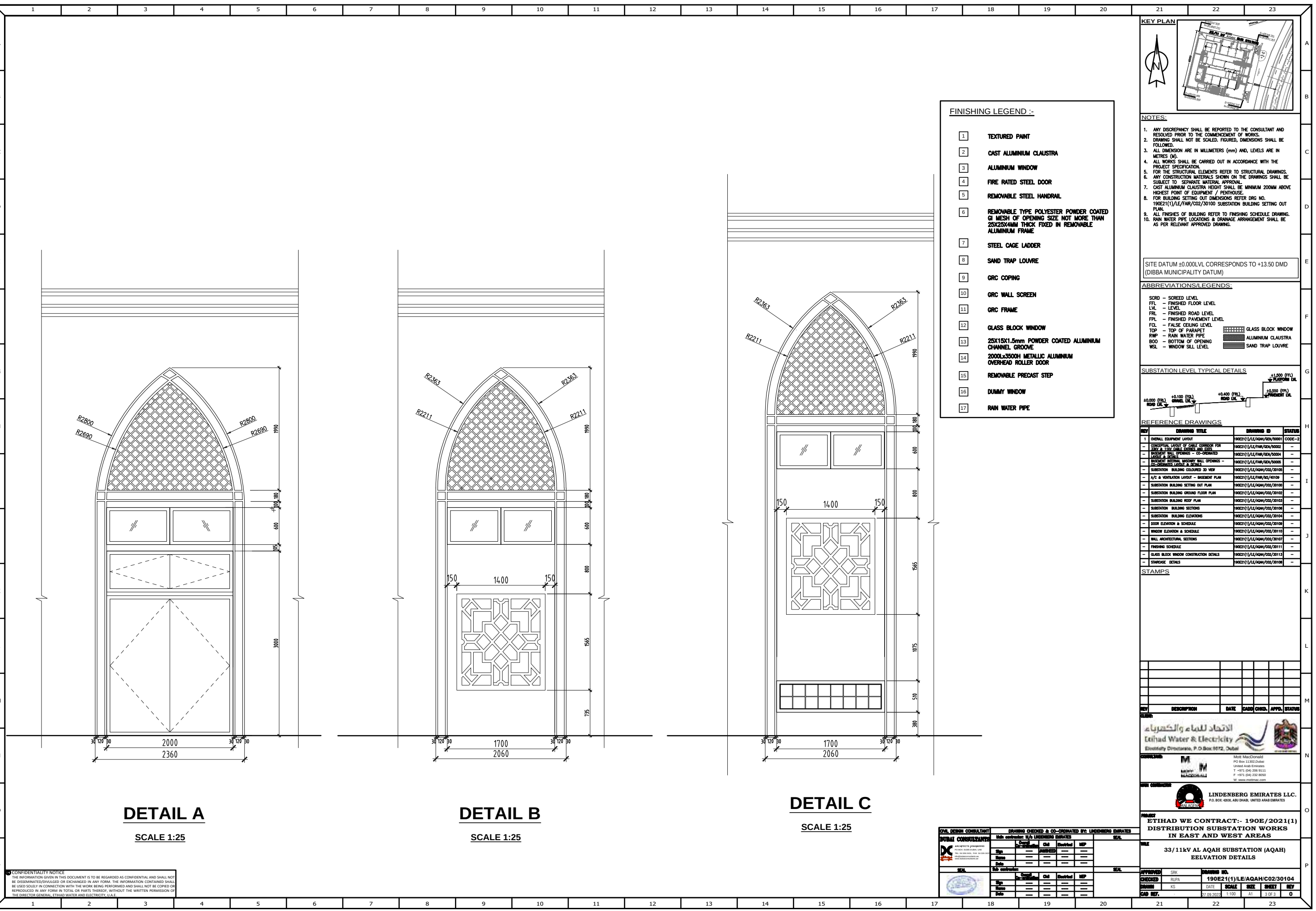
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CHECKED	RUPA	DATE	28.09.2022
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CAD REF.		SHEET	1 OF 1
		REV	0

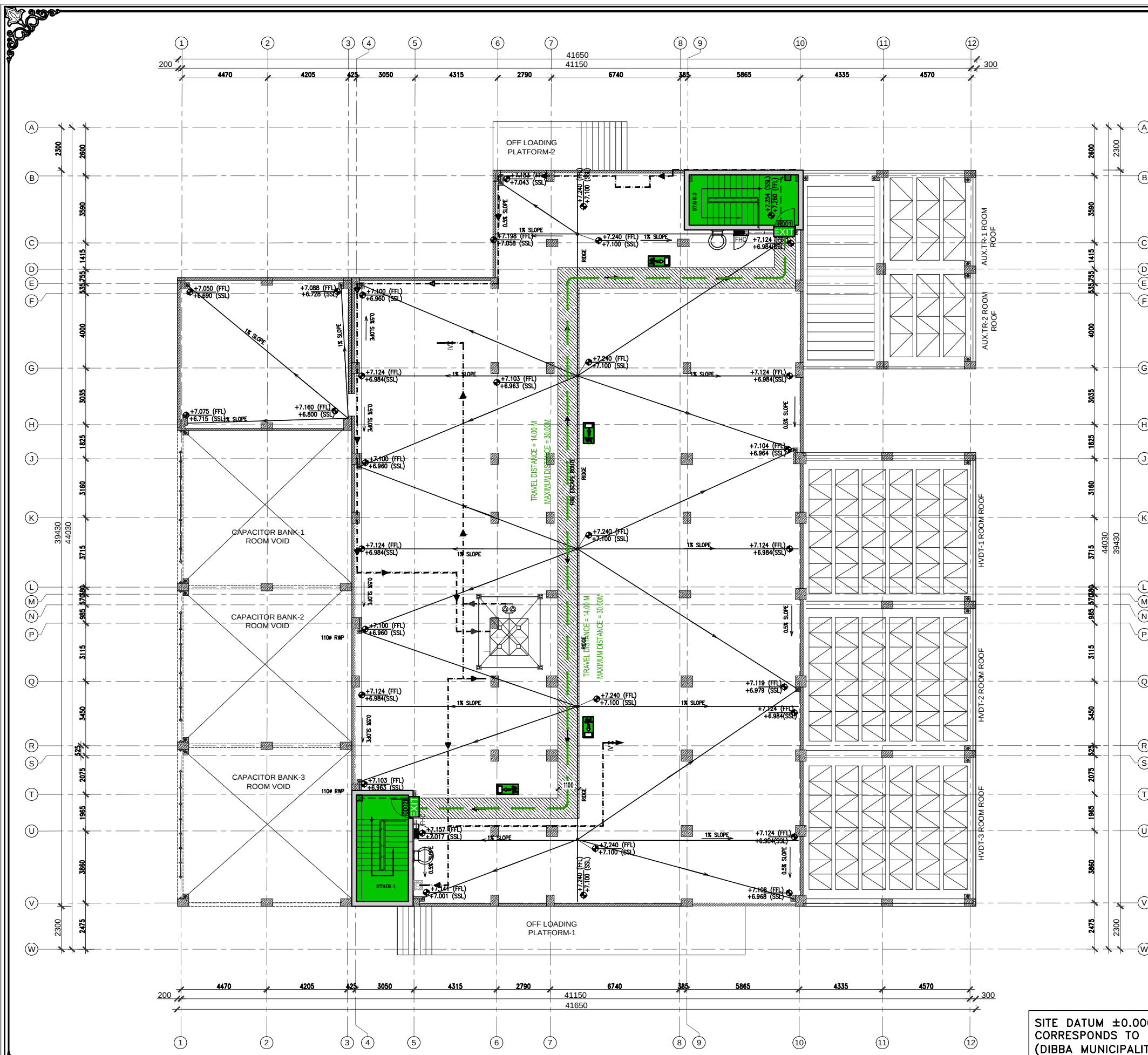
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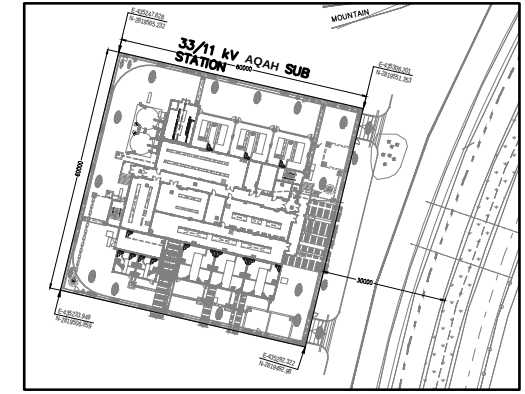






ROOF FLOOR PLAN
SCALE 1:100

SITE DATUM ±0.000LVL
CORRESPONDS TO +13.5 DMD
(DIBBA MUNICIPALITY DATUM)



Project Data

Land Area	TOTAL:3600.00 m ²	No. of Authorized Built	G	No. of Floor	B+G+ (Stair Head room)
Built Percentage	TOTAL:43.00%	Floor Number	Floor Area	Floor Height	
Compound Wall	240.00 m	Basement Floor	1541.56 sq m	3.54 m	
No. Flats		Ground Floor	1547.38 sq m	3.80 m	
No. Rooms	21	Mezzanine			
No. Shops		First Floor			
No. Parking		Second Floor			
No. Of Typical Floor		Third Floor & More			
Area Of Typical Floor		Fourth Floor & Above			
Area of Stair Room	15.39 sq m	Area of Bent House			
Number of prayers (Mosque)		Addition Area (Ground Floor)			
Total Built Up Area	3129.22 sq m	Addition Area (First Floor)			

Client Data

الاتحاد للماء والكهرباء
Etihad Water & Electricity
Electricity Directorate, P.O.Box:1672, Dubai



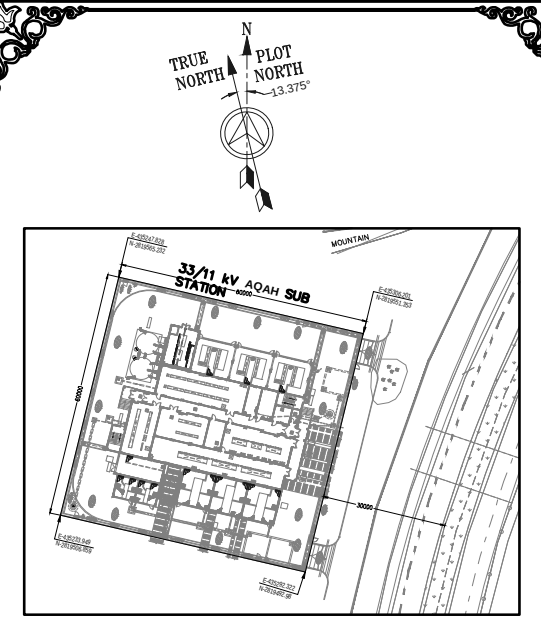
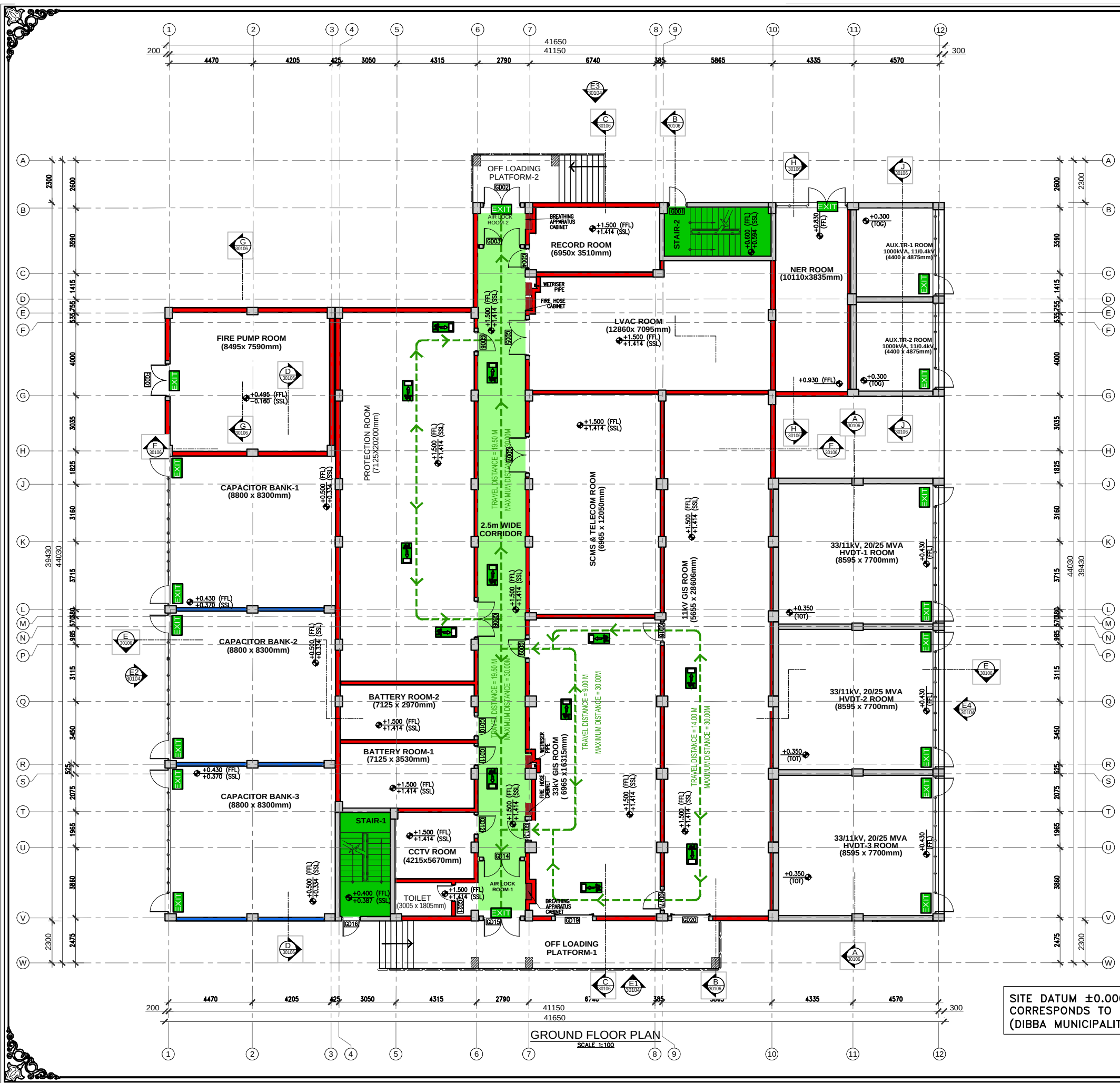
Consultant Data



Design Corner Engineering Consultant
ديزاين كورنر للاستشارات الهندسية
P.O.Box: 14020 DIBBA-FUJ
Dibba - Fujairah - UAE - Next to DIB

Location	AL AQAH, DIBBA - U.A.E	Stamp
Plot Code	0903080	
Consultant Project Code	04BL	
Consultant Name	DESIGN CORNER ENGINEERING CONSULTANT	
Client	ETHIHAD WE	
Project	ETHIHAD WE CONTRACT:- 190E/2021(1) DISTRIBUTION SUBSTATION WORKS IN EAST AND WEST AREAS	

Drawing Title	33/11KV AL AQAH SUBSTATION BUILDING FIRE ESCAPE ROUTE ROOF FLOOR PLAN
Architect Name	ARCH/ HASSAN IBRAHIM
Civil Engineer Name	ENG/ ANVAR SADIK TP
Date	AUGUST/2022
Scale	1:100



Project Data				
Land Area	TOTAL:3600.00 m ²	No. of Authorized Built	G	No. of Floor
Built Percentage	TOTAL:43.00%	Floor Number	Floor Area	Floor Height
Compound Wall	240.00 m	Basement Floor	1541.56 sq m	3.54 m
No. Flats		Ground Floor	1547.38 sq m	3.80 m
No. Rooms	21	Mezzanine		
No. Shops		First Floor		
No. Parking		Second Floor		
No. Of Typical Floor		Third Floor & More		
Area Of Typical Floor		Fourth Floor & Above		
Area of Stair Room	15.39 sq m	Area of Bent House		
Number of prayers (Mosque)		Addition Area (Ground Floor)		
Total Built Up Area	3129.22 sq m	Addition Area (First Floor)		

Client Data

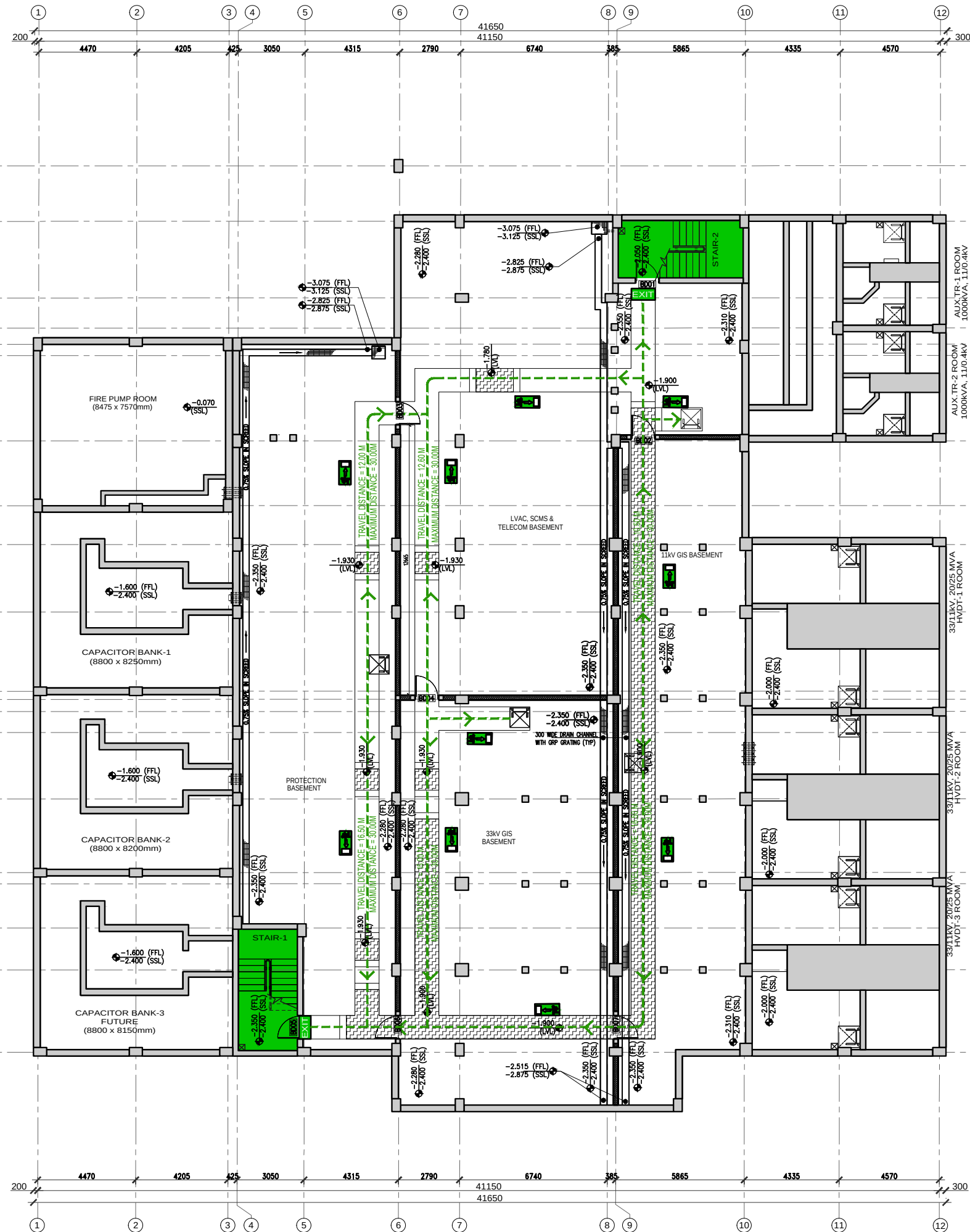
الاتحاد للماء والكهرباء
Etihad Water & Electricity
Electricity Directorate, P.O.Box:1672, Dubai

Consultant Data

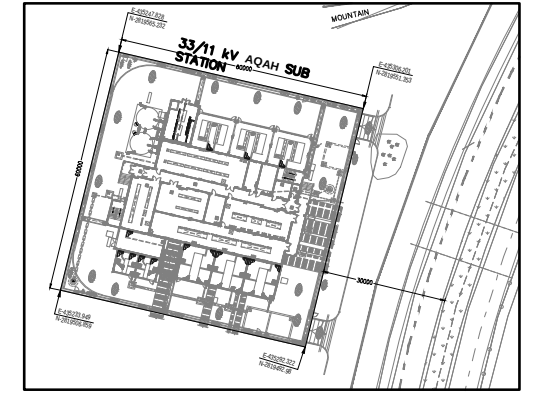
Design Corner Engineering Consultant
ديزاين كورنر للاستشارات الهندسية
P.O.Box: 14020 DIBBA-FLJ
050 444 707 050 549 2049 050 794 0475
design.corner34@gmail.com Doha - Riyadh - UAE - Next to DIB

Location	AL AQAH, DIBBA - U.A.E	Stamp
Plot Code	0903080	
Consultant Project Code	04BL	
Consultant Name	DESIGN CORNER ENGINEERING CONSULTANT	
Client	ETHIHAD WE	
Project	ETHIHAD WE CONTRACT:- 190E/2021(1) DISTRIBUTION SUBSTATION WORKS IN EAST AND WEST AREAS	

Drawing Title	33/11KV AL AQAH SUBSTATION BUILDING FIRE ESCAPE ROUTE GROUND FLOOR PLAN
Architect Name	ARCH/ HASSAN IBRAHIM
Civil Engineer Name	ENG/ ANVAR SADIK TP
Date	AUGUST/2022
Scale	1:100



SITE DATUM ± 0.000 LVL
CORRESPONDS TO +13.5 DMD
(DIBBA MUNICIPALITY DATUM)



Project Data

Land Area	TOTAL-3600.00 m ²	No. of Authorized Built	G	No. of Floor	B+G+ (Stair Head room)
Built Percentage	TOTAL-43.00%	Floor Number	Floor Area	Floor Height	
Compound Wall	240.00 m	Basement Floor	1541.56 sq m	3.54 m	
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No. Rooms	21	Mezzanine			
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Number of prayers (Mosque)		Addition Area (Ground Floor)			
Total Built Up Area	3129.22 sq m	Addition Area (First Floor)			

Client Data

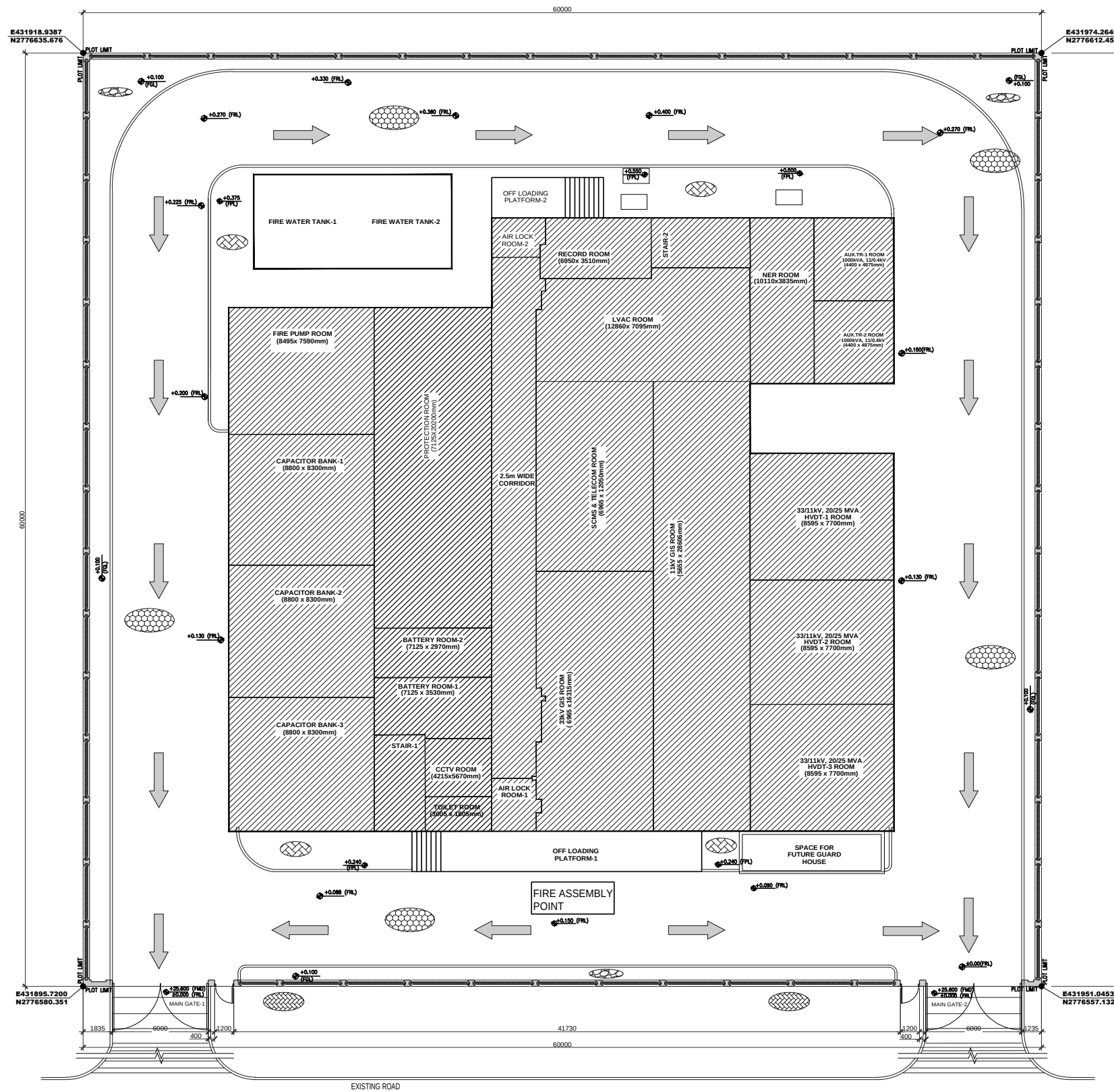
الاتحاد للماء والكهرباء
Ethihad Water & Electricity
Electricity Directorate, P.O.Box:1672, Dubai

Consultant Data

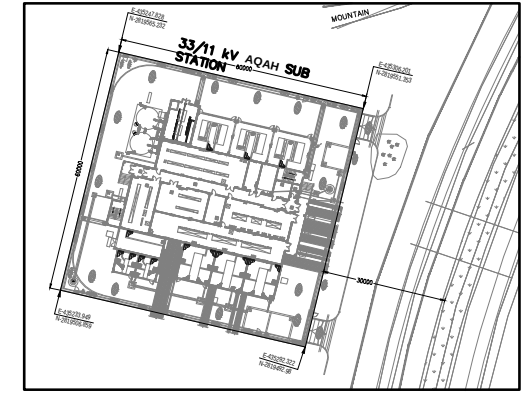
Design Corner Engineering Consultant
ديزاين كورنر للاستشارات الهندسية
P.O. BOX: 14020 DIBBA-FUJ
Dubai - Fujairah - UAE - Next to DIB

Location	AL AQAH, DIBBA - U.A.E	Stamp
Plot Code	0903080	
Consultant Project Code	04BL	
Consultant Name	DESIGN CORNER ENGINEERING CONSULTANT	
Client	ETHIHAD WE	
Project	ETHIHAD WE CONTRACT:- 190E/2021(1) DISTRIBUTION SUBSTATION WORKS IN EAST AND WEST AREAS	

Drawing Title	33/11KV AL AQAH SUBSTATION BUILDING FIRE ESCAPE BASEMENT FLOOR PLAN
Architect Name	ARCH/ HASSAN IBRAHIM
Civil Engineer Name	ENG/ ANVAR SADIK TP
Date	AUGUST/2022
Scale	1:100



SITE DATUM ± 0.000 LVL
CORRESPONDS TO $+13.5$ DMD
(DIBBA MUNICIPALITY DATUM)



Project Data

Land Area	TOTAL-3600.00 m ²	No. of Authorized Built	G	No. of Floor	B+G+ (Stair Head room)
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Client Data

الاتحاد للماء والكهرباء
Etihad Water & Electricity
Electricity Directorate, P.O.Box:1672, Dubai



Consultant Data



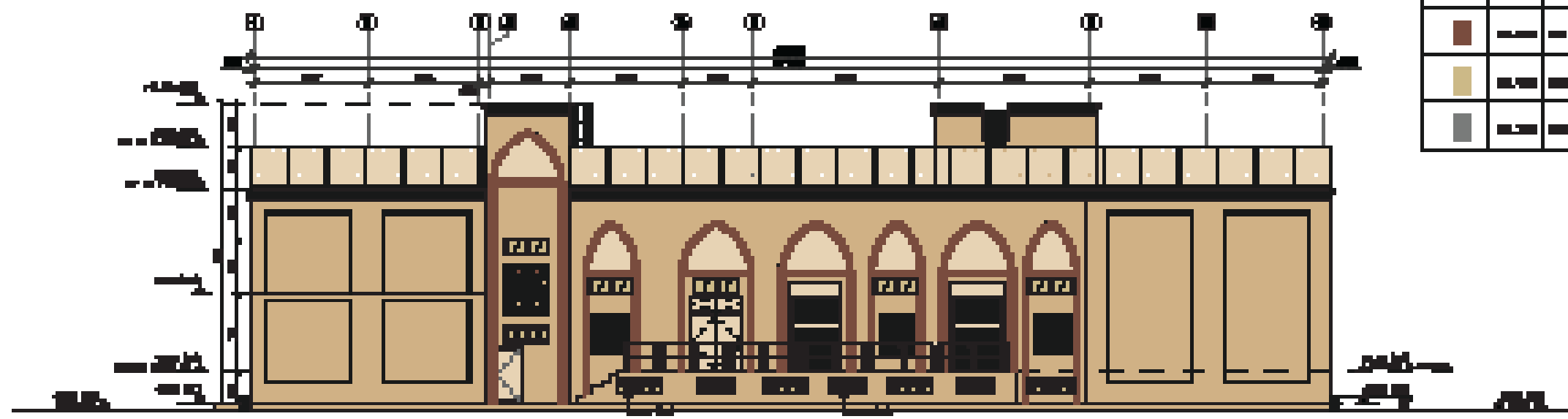
Design Corner Engineering Consultant
ديزاين كورنر للاستشارات الهندسية
P.O.Box: 14020 DIBBA-FUJ
Dibba - Fujairah - UAE - Next to DB

Location	AL AQAH, DIBBA - U.A.E	Stamp
Plot Code	0903080	
Consultant Project Code	04BL	
Consultant Name	DESIGN CORNER ENGINEERING CONSULTANT	
Client	ETHIHAD WE	
Project	ETHIHAD WE CONTRACT:- 190E/2021(1) DISTRIBUTION SUBSTATION WORKS IN EAST AND WEST AREAS	

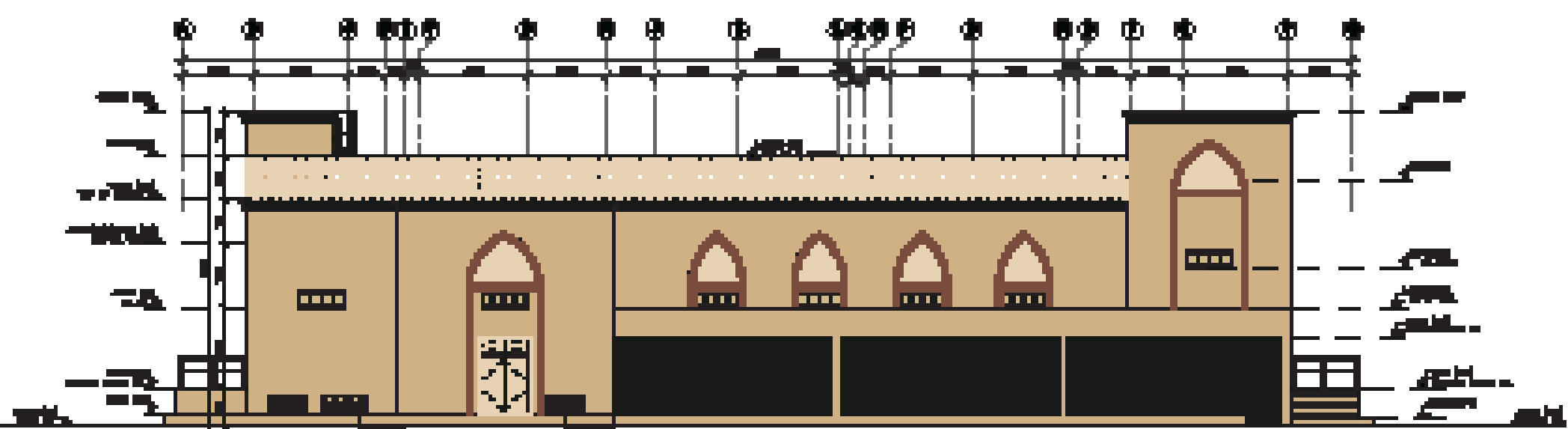
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Architect Name	ARCH/ HASSAN IBRAHIM
Civil Engineer Name	ENG/ ANVAR SADIK TP
Date	AUGUST/2022
Scale	1:100



NO.	DESCRIPTION	REMARKS
1	WALL	WALL
2	DOOR	DOOR
3	WINDOW	WINDOW
4	ROOF	ROOF
5	FLOOR	FLOOR



FRONT ELEVATION



SIDE ELEVATION

PROJECT TITLE
PROJECT LOCATION
PROJECT NO.
PROJECT DATE
PROJECT STATUS

PROJECT DESCRIPTION
PROJECT SCOPE
PROJECT OBJECTIVES

PROJECT TEAM
PROJECT MANAGER
PROJECT COORDINATOR

NO.	DESCRIPTION	REMARKS
1	WALL	WALL
2	DOOR	DOOR
3	WINDOW	WINDOW
4	ROOF	ROOF
5	FLOOR	FLOOR

PROJECT BUDGET
PROJECT COST
PROJECT REVENUE

NO.	DESCRIPTION	REMARKS
1	WALL	WALL
2	DOOR	DOOR
3	WINDOW	WINDOW
4	ROOF	ROOF
5	FLOOR	FLOOR

PROJECT SCHEDULE
PROJECT START DATE
PROJECT END DATE

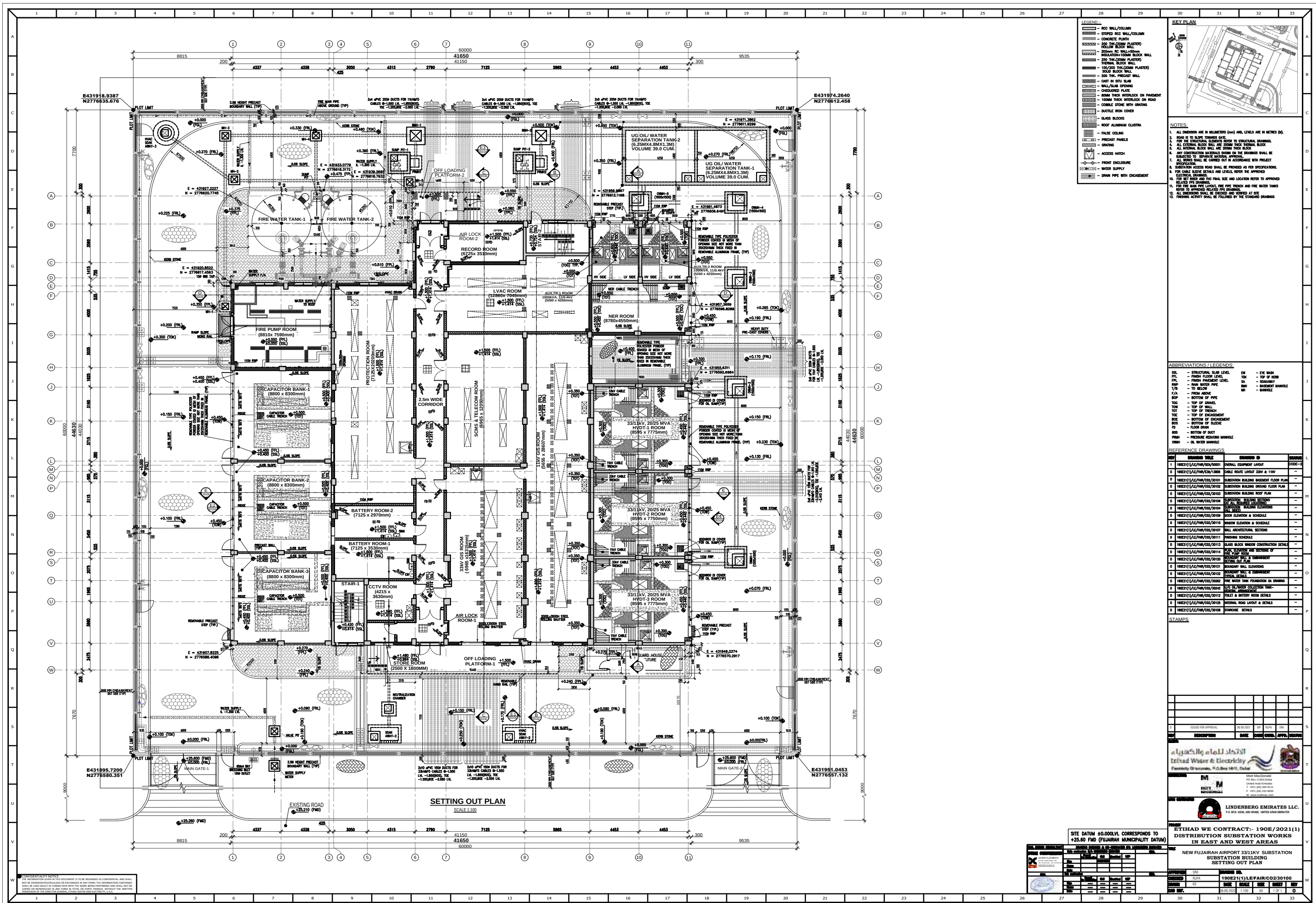
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2	DOOR	DOOR
3	WINDOW	WINDOW
4	ROOF	ROOF
5	FLOOR	FLOOR

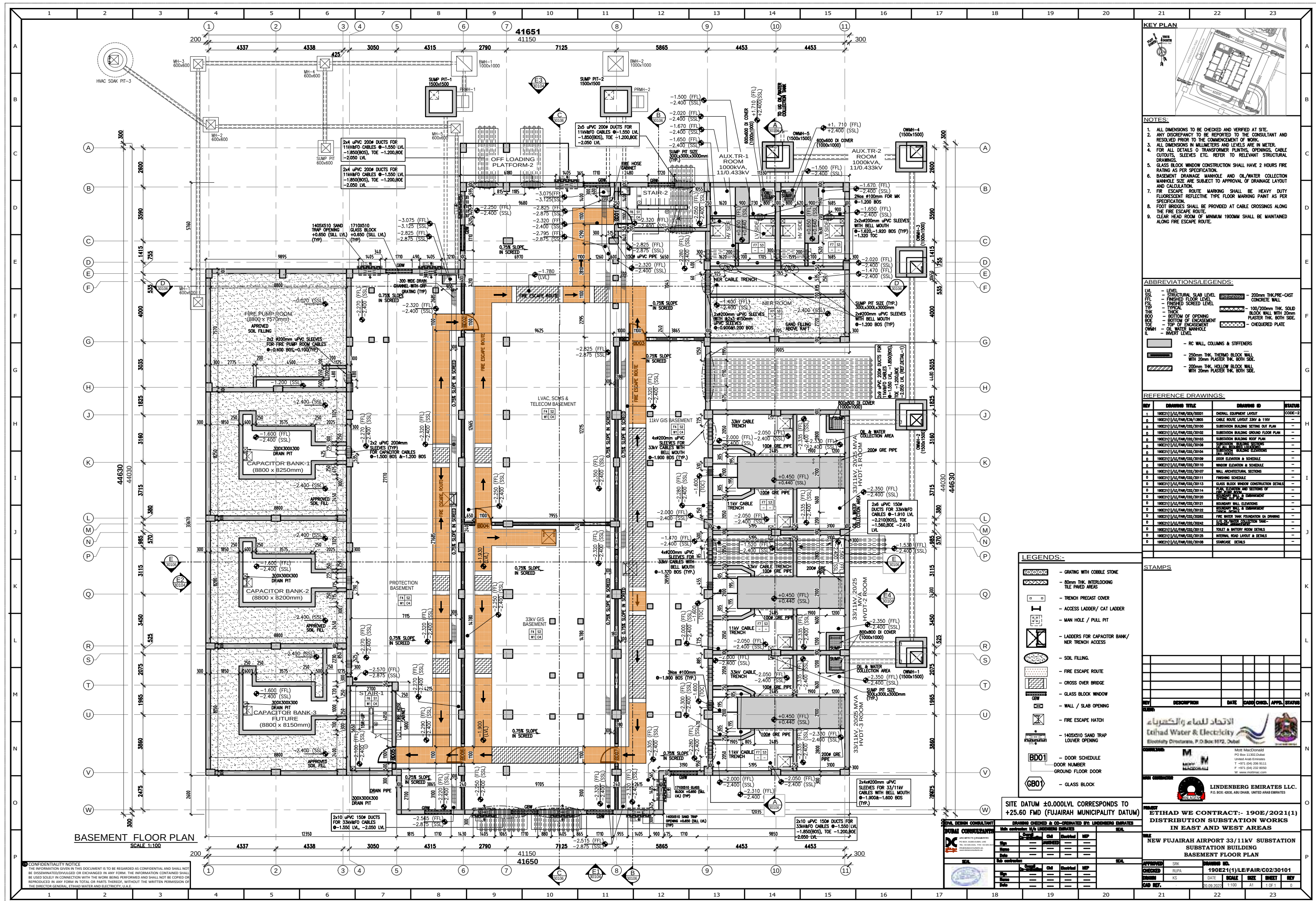
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PROJECT ADDRESS
PROJECT CONTACT

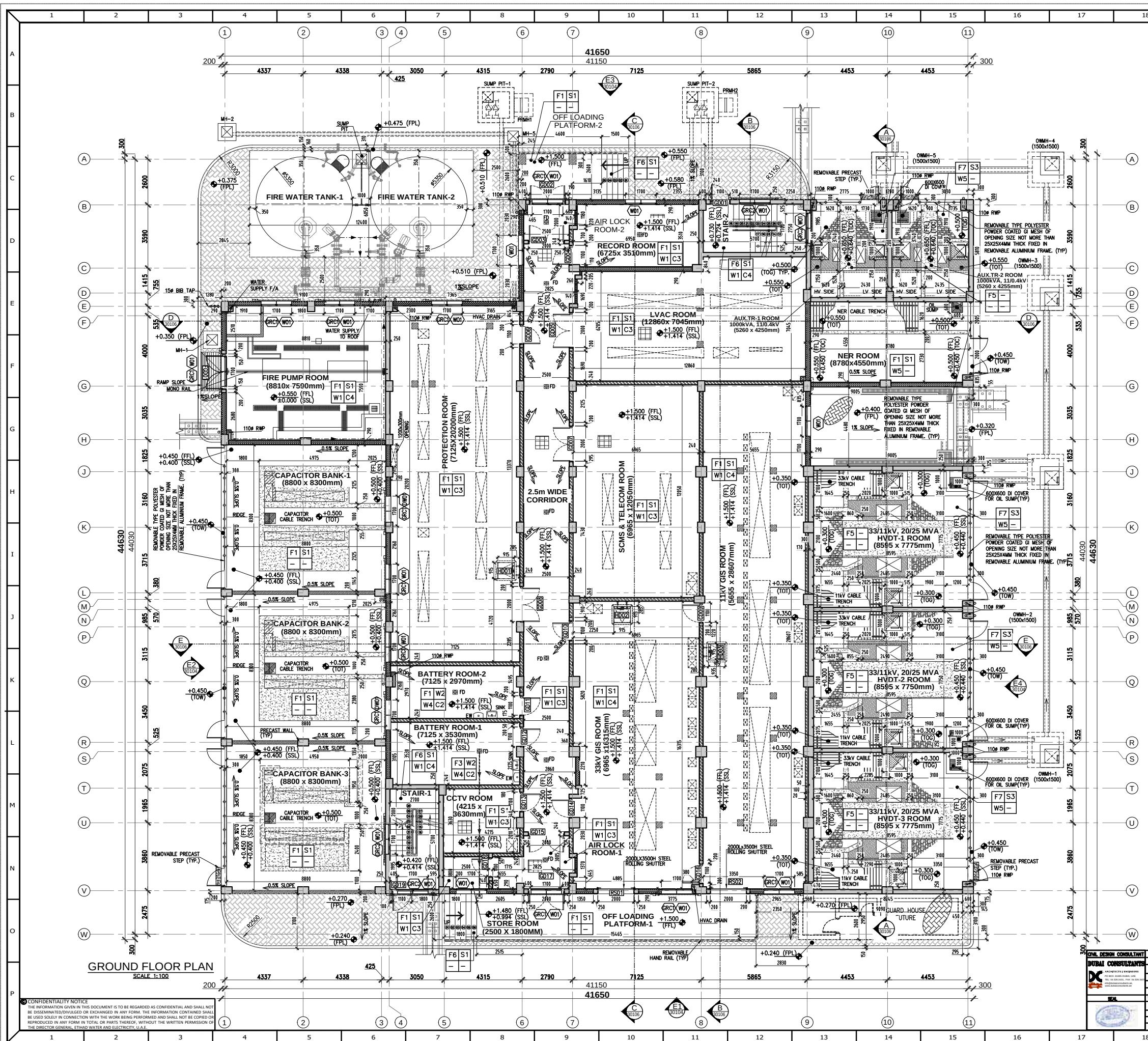
NO.	DESCRIPTION	REMARKS
1	WALL	WALL
2	DOOR	DOOR
3	WINDOW	WINDOW
4	ROOF	ROOF
5	FLOOR	FLOOR



PROJECT 1: NEW FUJAIRAH AIRPORT SUBSTATION







LEGEND

- PRMH - PRESSURE REDUCING MANHOLE
- OWMH - OIL WATER MANHOLE
- EW - EYE WASH
- TK - TOP OF KERB
- SA - SOAKAWAY
- BMH - BASEMENT MANHOLE
- MH - MANHOLE
- RC - RCC WALL/COLUMN
- STW - STOPPED RCC WALL/COLUMN
- CONC - CONCRETE PLINTH
- 200 THK (20MM PLASTER) - 200 THK (20MM PLASTER)
- 300mm RC WALL+50mm INSULATION+100MM BLOCK WALL - 300mm RC WALL+50mm INSULATION+100MM BLOCK WALL
- 250 THK (20MM PLASTER) - 250 THK (20MM PLASTER)
- 100/200 THK (20MM PLASTER) - 100/200 THK (20MM PLASTER)
- SOLID BLOCK WALL - SOLID BLOCK WALL
- 250 THK PRECAST WALL - 250 THK PRECAST WALL
- CAST IN SITU SLAB - CAST IN SITU SLAB
- WALL/SLAB OPENING - WALL/SLAB OPENING
- CHEQUERED PLATE - CHEQUERED PLATE
- 80MM THICK INTERLOCK ON PAVEMENT - 80MM THICK INTERLOCK ON PAVEMENT
- 100MM THICK INTERLOCK ON ROAD - 100MM THICK INTERLOCK ON ROAD
- COBBLE STONE WITH GRATING - COBBLE STONE WITH GRATING
- DUCTILE IRON COVER - DUCTILE IRON COVER
- GLASS BLOCKS - GLASS BLOCKS
- ROOF ALUMINUM CLUSTRA - ROOF ALUMINUM CLUSTRA
- FALSE CEILING - FALSE CEILING
- PRECAST PANELS - PRECAST PANELS
- GRATING - GRATING
- ACCESS HATCH - ACCESS HATCH
- FRONT ENCLOSURE - FRONT ENCLOSURE
- HD01 - HATCH DOOR NUMBER
- RS01 - ROLLING SHUTTER
- GD01 - DOOR SCHEDULE
- DOOR NUMBER - DOOR NUMBER
- GROUND FLOOR DOOR - GROUND FLOOR DOOR
- W01 - WINDOW SCHEDULE
- GB01 - GLASS BLOCK
- GRC - GRC SCHEDULE
- WATER SUPPLY - WATER SUPPLY
- DRAIN PIPE WITH ENCASEMENT - DRAIN PIPE WITH ENCASEMENT

KEY PLAN

NOTES

- ALL DIMENSION ARE IN MILLIMETERS (mm) AND, LEVELS ARE IN METRES (M).
- ROAD IS TO SLOPE TOWARDS GATE.
- FOR THE STRUCTURAL ELEMENTS REFER TO STRUCTURAL DRAWINGS.
- ALL EXTERNAL BLOCK WALL ARE 250MM THICK THERMAL BLOCK.
- ALL INTERNAL BLOCK WALL ARE 200MM THICK BLOCK.
- ANY CONSTRUCTION MATERIALS SHOWN ON THE DRAWINGS SHALL BE SUBJECT TO SEPARATE MATERIAL APPROVAL.
- ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH PROJECT SPECIFICATION.
- SUBSTATION ACCESS ROAD SHALL BE PROVIDED AS PER SPECIFICATIONS.
- FOR CABLE SLEEVE DETAILS AND LEVELS, REFER THE APPROVED ELECTRICAL DRAWINGS.
- FOR NET RISER AND FHS FINAL SIZE AND LOCATION REFER TO APPROVED RELATED FPS DRAWINGS.
- FOR FIRE MAIN PIPE LAYOUT, FIRE PIPE TRENCH AND FIRE WATER TANKS REFER TO APPROVED RELATED FPS DRAWINGS.
- ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED AT SITE.
- FINISHING ACTIVITY SHALL BE FOLLOWED BY THE STANDARD DRAWINGS.

ABBREVIATIONS/LEGENDS

- SSL - STRUCTURAL SLAB LEVEL
- FLL - FINISH FLOOR LEVEL
- FPL - FINISH PAVEMENT LEVEL
- RWP - RAIN WATER PIPE
- T/B - TO BELOW
- F/A - FROM ABOVE
- BOP - BOTTOM OF PIPE
- TOW - TOP OF WALL
- TOT - TOP OF TRENCH
- TOE - TOP OF ENCASEMENT
- BOE - BOTTOM OF ENCASEMENT
- BOS - BOTTOM OF SLEEVE
- FD - FLOOR DRAIN
- BOO - BOTTOM OF DUCT

REFERENCE DRAWINGS

REV	DRAWING TITLE	DRAWING ID	STATUS
1	11021(1)/AE/FAIR/CO2/0001	OVERALL EQUIPMENT LAYOUT	CODE-2
0	11021(1)/AE/FAIR/CO2/0002	CABLE ROUTE LAYOUT 33KV & 11KV	-
0	11021(1)/AE/FAIR/CO2/0003	SUBSTATION BUILDING SCENE BUT PLAN	-
0	11021(1)/AE/FAIR/CO2/0004	SUBSTATION BUILDING SCENE BUT PLAN	-
0	11021(1)/AE/FAIR/CO2/0005	SUBSTATION BUILDING SCENE BUT PLAN	-
0	11021(1)/AE/FAIR/CO2/0006	SUBSTATION BUILDING SCENE BUT PLAN	-
0	11021(1)/AE/FAIR/CO2/0007	SUBSTATION BUILDING SCENE BUT PLAN	-
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0	11021(1)/AE/FAIR/CO2/0050	SUBSTATION BUILDING SCENE BUT PLAN	-

STAMPS

ISSUED FOR APPROVAL: 06.09.2022 BY: RUPA SRK

DESIGNED: RUPA SRK

CHECKED: RUPA SRK

APPROVED: RUPA SRK

GROUND FLOOR PLAN

SCALE 1:100

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SITE DATUM ±0.000LVL CORRESPONDS TO +25.60 FMD (FUJAIRAH MUNICIPALITY DATUM)

ETIHAD WATER & ELECTRICITY

Electricity Directorate, P.O. Box 1672, Dubai

Mohd MacDonald
P.O. Box 11302, Dubai
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T: +971 (04) 206 8111
F: +971 (04) 206 8000
W: www.etihad.com

LINDENBERG EMIRATES LLC.

P.O. Box 4265, Abu Dhabi, United Arab Emirates

ETIHAD WATER CONTRACT- 1908/2021(1)

DISTRIBUTION SUBSTATION WORKS

IN EAST AND WEST AREAS

NEW FUJAIRAH AIRPORT 33/11KV SUBSTATION

GROUND FLOOR PLAN

APPROVED SRK

CHECKED RUPA

DRAWN KS

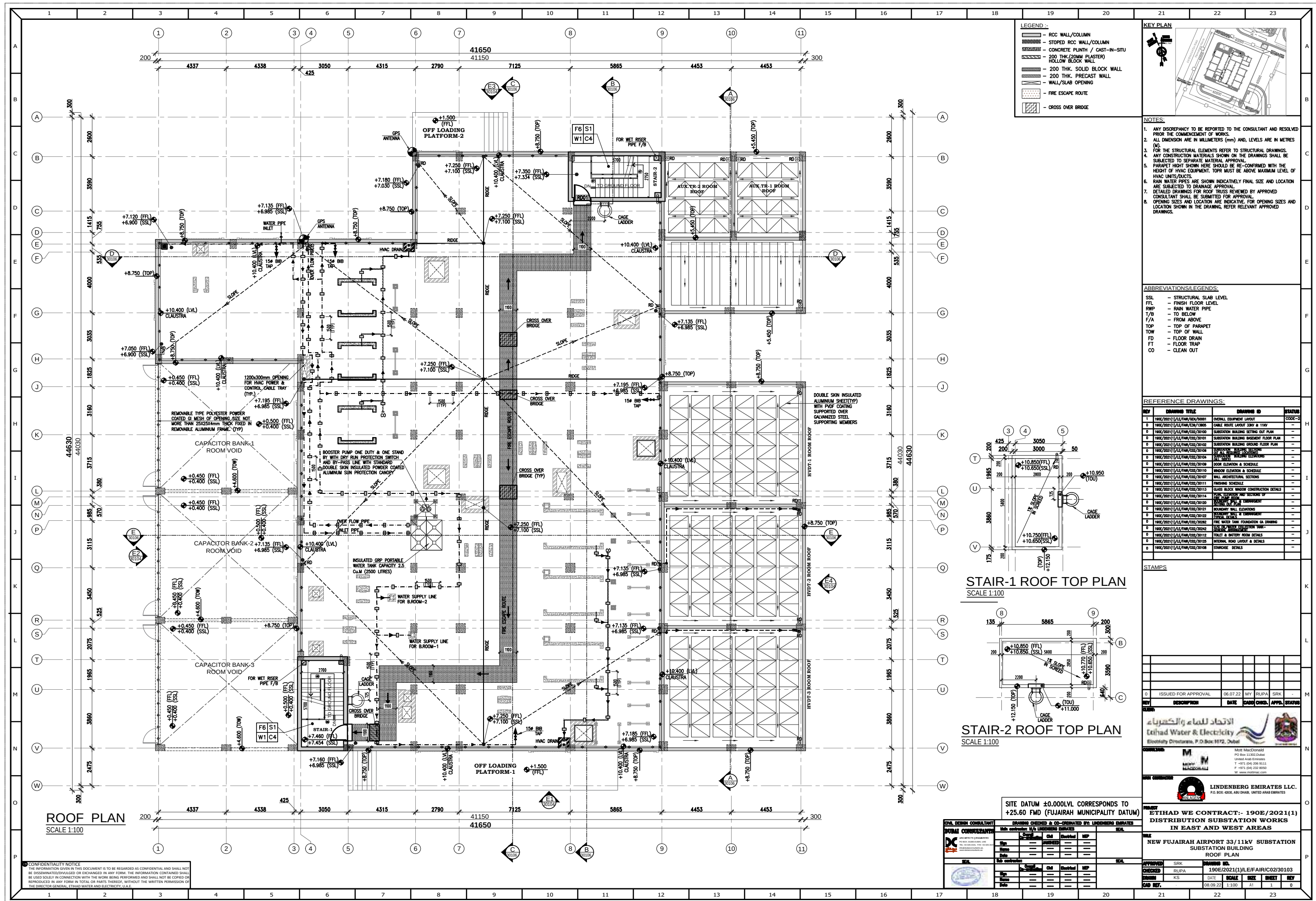
CAD REF. 190E21(1)/LE/FAIR/CO2/30102

DATE 06.09.2022

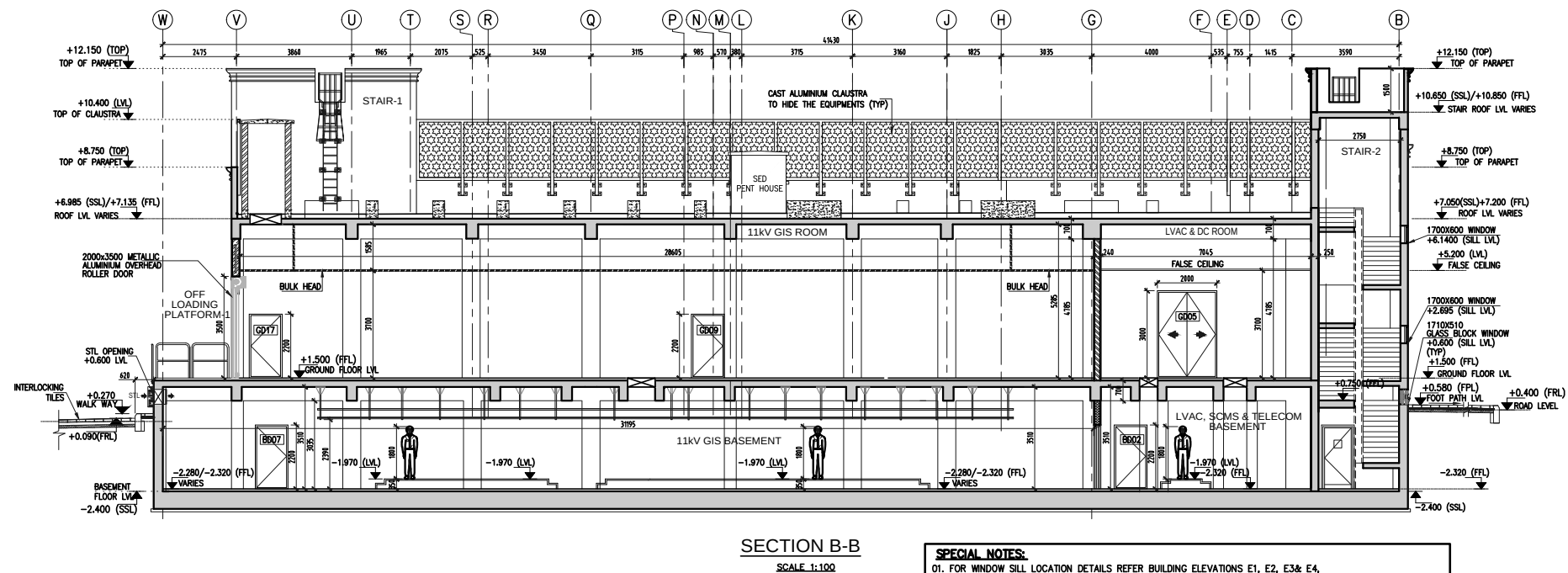
SCALE 1:100

SHEET 1 OF 1

REV 0



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SPECIAL NOTES:

01. FOR WINDOW SILL LOCATION DETAILS REFER BUILDING ELEVATIONS E1, E2, E3& E4, DWG NO. 1906/2021(E1)/LE/AAOH/CO2/30104
02. ALL FINISHES TO BE FOLLOWED AS PER STANDARD BUILDING FINISHING SCHEDULE
03. CABLE TRENCHES SHALL BE COVERED WITH CAST IN SITU SLAB ALONG WITH OPENING FOR VENTILATION AND TRENCH ACCESS. VENTILATION OPENING SHALL BE COVERED WITH CHEQUERED PLATE & GRATING. TRENCH ACCESS OPENING SHALL BE COVERED WITH PRECAST CONCRETE SLAB STRIPS WEIGHING NOT MORE THAN 50 KG.)
04. OIL/WATER TRENCHES SHALL BE COVERED WITH COBBLE STONE OVER GRATING.
05. PRECAST CONCRETE SLAB SHALL BE WATER TIGHT.
06. FOR CABLE SLEEVE DETAILS ALL LEVELS, REFER APPROVED ELECTRICAL DRAWINGS
07. FOOT BRIDGE SHALL BE MADE OF STEEL GRATING AS PER SPECIFICATION.
08. FIRE ESCAPE ROUTE IN BASEMENT SHALL BE MARKED WITH PHOTO LUMINOUS PAINT AS PER CIVIL DEFENSE REQUIREMENTS AND APPROVAL.

KEY PLAN



- ### NOTES:
1. ALL DIMENSION ARE IN MILLIMETRES (mm) AND, LEVELS ARE IN METRES (M).
 2. ROAD IS TO SLOPE TOWARDS GATE.
 3. FOR THE STRUCTURAL ELEMENTS REFER TO STRUCTURAL DRAWINGS.
 4. ALL EXTERNAL BLOCK WALL ARE 250MM THICK THERMAL BLOCK
 5. ALL INTERNAL BLOCK WALL ARE 200MM THICK BLOCK
 6. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DRAWINGS SHALL BE SUBJECTED TO SEPARATE MATERIAL APPROVAL.
 7. ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH PROJECT SPECIFICATION.
 8. SUBSTATION ACCESS ROAD SHALL BE PROVIDED AS PER SPECIFICATIONS.
 9. FOR CABLE SLEEVES DETAILS AND LEVELS, REFER THE APPROVED DRAWINGS.
 10. FOR FIRE RISER AND FIC FINAL SIZE AND LOCATION REFER TO APPROVED DRAWINGS.
 11. FOR FIRE MAIN PIPE LAYOUT, REFER FIRE TRENCH AND FIRE WATER TAKES REFER TO APPROVED RELATED FPS DRAWINGS.
 12. ALL DIMENSIONS SHALL BE CHECKED AND NOTED AT THE END OF EACH FINISHING ACTIVITY SHALL BE FOLLOWED BY THE STANDARD DRAWINGS

ABBREVIATIONS/LEGENDS:

SSL	-	STRUCTURAL SLAB LEVEL
FPL	-	FINISH FLOOR LEVEL
PFL	-	FINISH PAVEMENT LEVEL
RWP	-	RAIN WATER PIPE
T/B	-	TO BELOW
F/A	-	FROM ABOVE
BOP	-	BOTTOM OF PIPE
TOT	-	TOP OF GRAVEL
TOW	-	TOP OF WALL
TOT	-	TOP OF TRENCH
TOE	-	TOP OF ENCASEMENT
BOE	-	BOTTOM OF ENCASEMENT
SOS	-	BOTTOM OF SLEEVE
FD	-	FLOOR DRAIN
BOD	-	BOTTOM OF DUCT

NO	DRAWING TITLE	DRAWING ID	STATUS
1	18023(1)/JL/PM/223/2019	ORIGINAL EQUIPMENT LAYOUT	CODE=
2	18023(1)/JL/PM/230/2020	CABLE ROUTE ABOVE 33KV & 11KV	
3	18023(1)/JL/PM/223/2019	SUBSTATION BUILDING STATION OUT PLAN	
4	18023(1)/JL/PM/223/2019	SUBSTATION BUILDING INSIDE FLOOR PLAN	
5	18023(1)/JL/PM/223/2019	SUBSTATION BUILDING INSIDE FLOOR PLAN	
6	18023(1)/JL/PM/223/2019	SUBSTATION BUILDING ROOF PLAN	
7	18023(1)/JL/PM/223/2019	SUBSTATION BUILDING ELEVATIONS	
8	18023(1)/JL/PM/223/2019	DOOR ELEVATION & SCHEDULE	
9	18023(1)/JL/PM/223/2019	WINDOW ELEVATION & SCHEDULE	
10	18023(1)/JL/PM/223/2019	GLASS ALUMINUM WINDOW SECTIONS	
11	18023(1)/JL/PM/223/2019	GLASS ALUMINUM WINDOW SECTIONS	
12	18023(1)/JL/PM/223/2019	GLASS BLOCK WINDOW CONSTRUCTION DETAILS	
13	18023(1)/JL/PM/223/2019	FLAT ELEVATION AND SECTIONS OF	
14	18023(1)/JL/PM/223/2019	FLAT ELEVATION & ENVIRONMENT	
15	18023(1)/JL/PM/223/2019	FLAT ELEVATION & ENVIRONMENT	
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[illegible]

NO	ISSUED FOR APPROVAL	09.09.2022	SI	RUPA	SRK	
NEW	DESCRIPTION	DATE	CARR	CHND.	APPR.	STATUS
NEW	الاقتراب للبناء والكهرباء Eitah Water & Electricity Electricity Directorate, P.O.Box:1672, Dubai  					
COMMENTS:	  MO Box McDonald PO Box 11382 Dubai United Arab Emirates T +971 (04) 206 9111 F +971 (04) 232 8050 W www.mcd.com					

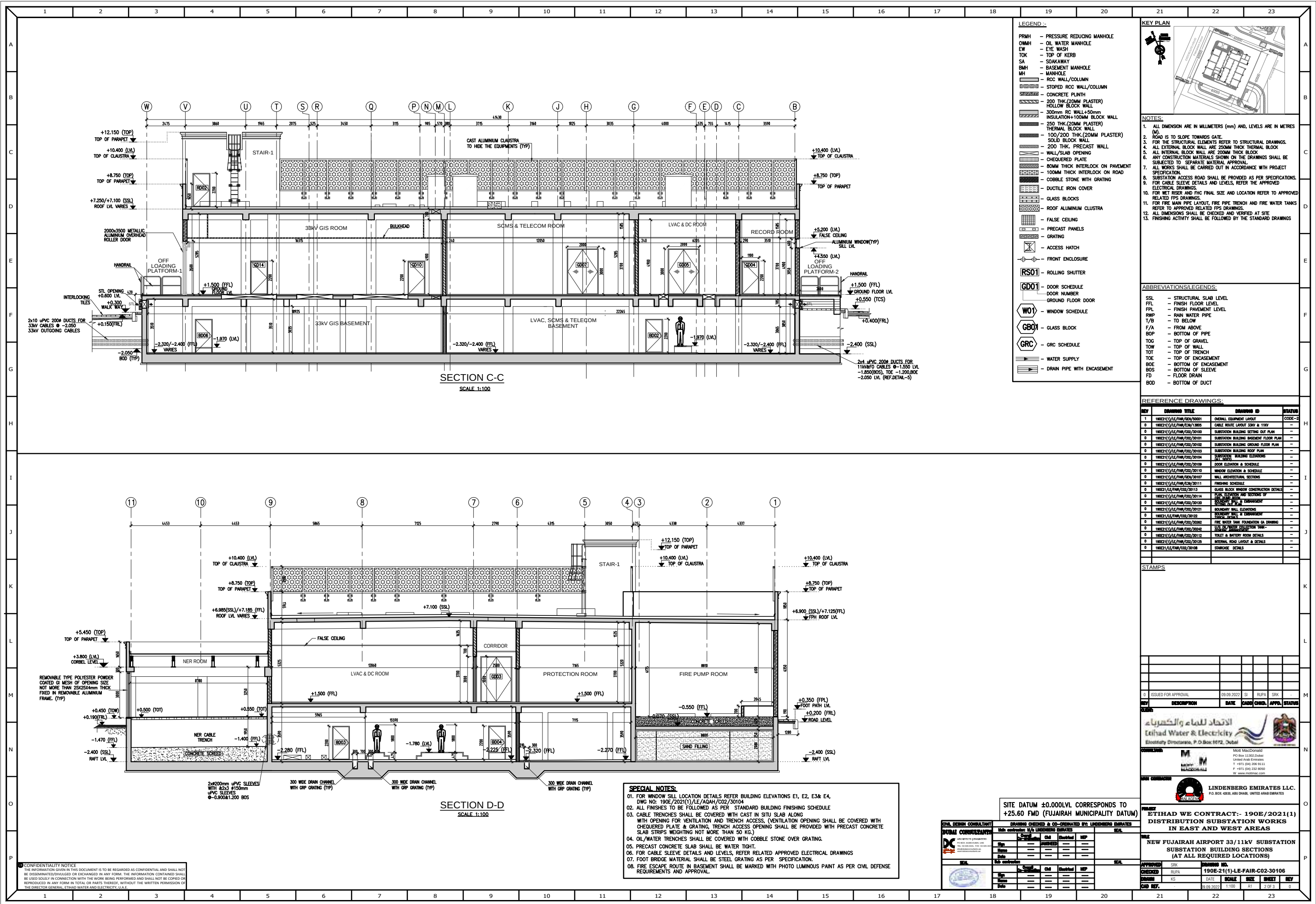


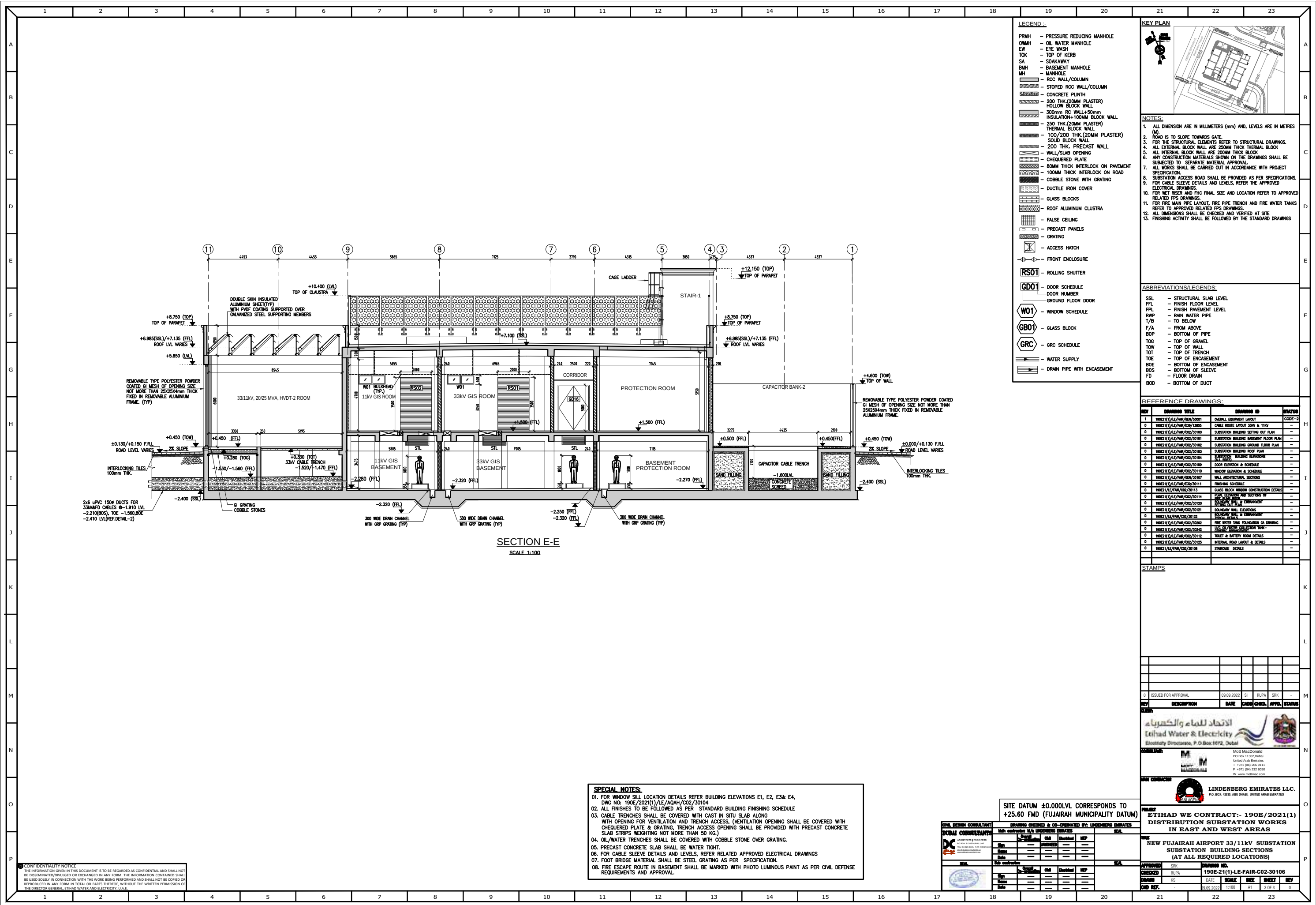
LINDENBERG EMIRATES LLC.
P.O. BOX: 42630, ABU DHABI, UNITED ARAB EMIRATES

SITE DATUM ± 0.000 LVL CORRESPONDS TO
+25.60 FMD (FUJAIRAH MUNICIPALITY DATUM)

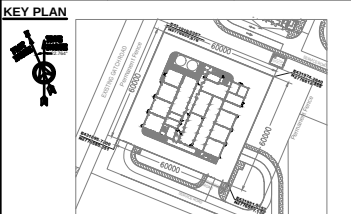
CIVIL DESIGN CONSULTANT		DRAWING CHECKED & CO-ORDINATED BY: LINDSEY B. SMITH				
 DCA DESIGN CONSULTANTS ASSOCIATES 10000 WEST 10TH AVENUE SUITE 100 DENVER, CO 80231 TEL: 303.751.0000 FAX: 303.751.0001 WWW.DCA-USA.COM	Sub contractor Project Name Client Location Date	Checked Signature Initials Stamp	Old Signature Initials Stamp	Checked Signature Initials Stamp	IMP Signature Initials Stamp	SEA Signature Initials Stamp
SEA  SEA STRUCTURAL ENGINEERS ASSOCIATES 10000 WEST 10TH AVENUE SUITE 100 DENVER, CO 80231 TEL: 303.751.0000 FAX: 303.751.0001 WWW.SEA-USA.COM	Sub contractor Project Name Client Location Date	Checked Signature Initials Stamp	Old Signature Initials Stamp	Checked Signature Initials Stamp	IMP Signature Initials Stamp	SEA Signature Initials Stamp

PROJECT						
ETIHAD WE CONTRACT:- 190E/2021(1)						
DISTRIBUTION SUBSTATION WORKS						
IN EAST AND WEST AREAS						
FILE						
NEW FUJAIRAH AIRPORT 33/11KV SUBSTATION						
SUBSTATION BUILDING SECTIONS						
(AT ALL REQUIRED LOCATIONS)						
APPROVED		SRK	DRAWING NO.			
CHECKED		RUPA	190E-21(1)-LE-FAIR-C02-30106			
DRAWN	KS	DATE	SCALE	SIZE	SHEET	REV
CAD DES.		09.09.2022	1:100	A1	1 OF 3	0





- LEGEND :-**
- PRMH - PRESSURE REDUCING MANHOLE
 - OWMH - OIL WATER MANHOLE
 - EW - EYE WASH
 - TOK - TOP OF KERB
 - SA - SOAKAWAY
 - BMH - BASEMENT MANHOLE
 - MH - MANHOLE
 - - RCC WALL/COLUMN
 - - STOPPED RCC WALL/COLUMN
 - - CONCRETE PLINTH
 - - 200 THK (20MM PLASTER) HOLLOW BLOCK WALL
 - - 300mm RC WALL+50mm INSULATION+100MM BLOCK WALL
 - - 250 THK (20MM PLASTER) THERMAL BLOCK WALL
 - - 100/200 THK (20MM PLASTER) SOLID BLOCK WALL
 - - 200 THK. PRECAST WALL
 - - WALL/SLAB OPENING
 - - CHEQUERED PLATE
 - - 80MM THICK INTERLOCK ON PAVEMENT
 - - 100MM THICK INTERLOCK ON ROAD
 - - COBBLE STONE WITH GRATING
 - - DUCTILE IRON COVER
 - - GLASS BLOCKS
 - - ROOF ALUMINUM CLUSTRA
 - - FALSE CEILING
 - - PRECAST PANELS
 - - GRATING
 - - ACCESS HATCH
 - - FRONT ENCLOSURE
 - - ROLLING SHUTTER
 - RS01 - DOOR SCHEDULE
 - GD01 - DOOR NUMBER
 - GROUND FLOOR DOOR
 - W01 - WINDOW SCHEDULE
 - GB01 - GLASS BLOCK
 - GRC - GRC SCHEDULE
 - - WATER SUPPLY
 - - DRAIN PIPE WITH ENCASEMENT



- NOTES:**
1. ALL DIMENSION ARE IN MILLIMETERS (mm) AND, LEVELS ARE IN METRES (M).
 2. ROAD IS TO SLOPE TOWARDS GATE.
 3. FOR THE STRUCTURAL ELEMENTS REFER TO STRUCTURAL DRAWINGS.
 4. ALL EXTERNAL BLOCK WALL ARE 250MM THICK THERMAL BLOCK.
 5. ALL INTERNAL BLOCK WALL ARE 200MM THICK BLOCK.
 6. ANY CONSTRUCTION MATERIALS SHOWN ON THE DRAWINGS SHALL BE SUBJECTED TO SEPARATE MATERIAL APPROVAL.
 7. ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH PROJECT SPECIFICATION.
 8. SUBSTATION ACCESS ROAD SHALL BE PROVIDED AS PER SPECIFICATIONS.
 9. FOR CABLE SLEEVE DETAILS AND LEVELS, REFER THE APPROVED ELECTRICAL DRAWINGS.
 10. FOR NET RISER AND FHC FINAL SIZE AND LOCATION REFER TO APPROVED RELATED FPS DRAWINGS.
 11. FOR FIRE MAIN PIPE LAYOUT, FIRE PIPE TRENCH AND FIRE WATER TANKS REFER TO APPROVED RELATED FPS DRAWINGS.
 12. ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED AT SITE.
 13. FINISHING ACTIVITY SHALL BE FOLLOWED BY THE STANDARD DRAWINGS.

- ABBREVIATIONS/LEGENDS:**
- SSL - STRUCTURAL SLAB LEVEL
 - FFL - FINISH FLOOR LEVEL
 - RWP - FINISH PAVEMENT LEVEL
 - RWP - RAIN WATER PIPE
 - T/B - TO BELOW
 - F/A - FROM ABOVE
 - BOP - BOTTOM OF PIPE
 - TOG - TOP OF GRAVEL
 - TOW - TOP OF WALL
 - TOT - TOP OF TRENCH
 - TOE - TOP OF ENCASEMENT
 - BOE - BOTTOM OF ENCASEMENT
 - BOS - BOTTOM OF SLEEVE
 - FD - FLOOR DRAIN
 - BOO - BOTTOM OF DUCT

REFERENCE DRAWINGS:

REV	DRAWING TITLE	DRAWING ID	STATUS
1	110E21(1)/LE/FHW/02/0001	OVERALL EQUIPMENT LAYOUT	CODE-2
2	110E21(1)/LE/FHW/02/0002	CABLE ROUTE LAYOUT 33KV & 11KV	—
3	110E21(1)/LE/FHW/02/0003	SUBSTATION BUILDING SECTION CUT PLAN	—
4	110E21(1)/LE/FHW/02/0004	SUBSTATION BUILDING BASEMENT FLOOR PLAN	—
5	110E21(1)/LE/FHW/02/0005	SUBSTATION BUILDING GROUND FLOOR PLAN	—
6	110E21(1)/LE/FHW/02/0006	SUBSTATION BUILDING ROOF PLAN	—
7	110E21(1)/LE/FHW/02/0007	SUBSTATION BUILDING ELEVATIONS	—
8	110E21(1)/LE/FHW/02/0008	DOOR ELEVATION & SCHEDULE	—
9	110E21(1)/LE/FHW/02/0009	WINDOW ELEVATION & SCHEDULE	—
10	110E21(1)/LE/FHW/02/0010	GLASS BLOCK WINDOW CONSTRUCTION DETAILS	—
11	110E21(1)/LE/FHW/02/0011	PLAN, ELEVATION AND SECTION OF WALL, ARCHITECTURAL SECTIONS	—
12	110E21(1)/LE/FHW/02/0012	BOUNDARY WALL & TERRACING	—
13	110E21(1)/LE/FHW/02/0013	BOUNDARY WALL ELEVATIONS	—
14	110E21(1)/LE/FHW/02/0014	BOUNDARY WALL & TERRACING	—
15	110E21(1)/LE/FHW/02/0015	BOUNDARY WALL ELEVATIONS	—
16	110E21(1)/LE/FHW/02/0016	BOUNDARY WALL & TERRACING	—
17	110E21(1)/LE/FHW/02/0017	BOUNDARY WALL ELEVATIONS	—
18	110E21(1)/LE/FHW/02/0018	BOUNDARY WALL & TERRACING	—
19	110E21(1)/LE/FHW/02/0019	BOUNDARY WALL ELEVATIONS	—
20	110E21(1)/LE/FHW/02/0020	BOUNDARY WALL & TERRACING	—
21	110E21(1)/LE/FHW/02/0021	BOUNDARY WALL ELEVATIONS	—
22	110E21(1)/LE/FHW/02/0022	BOUNDARY WALL & TERRACING	—
23	110E21(1)/LE/FHW/02/0023	BOUNDARY WALL ELEVATIONS	—
24	110E21(1)/LE/FHW/02/0024	BOUNDARY WALL & TERRACING	—
25	110E21(1)/LE/FHW/02/0025	BOUNDARY WALL ELEVATIONS	—
26	110E21(1)/LE/FHW/02/0026	BOUNDARY WALL & TERRACING	—
27	110E21(1)/LE/FHW/02/0027	BOUNDARY WALL ELEVATIONS	—
28	110E21(1)/LE/FHW/02/0028	BOUNDARY WALL & TERRACING	—
29	110E21(1)/LE/FHW/02/0029	BOUNDARY WALL ELEVATIONS	—
30	110E21(1)/LE/FHW/02/0030	BOUNDARY WALL & TERRACING	—

STAMPS

REV	DESCRIPTION	DATE	CADD CHG.	APPR.	STATUS
0	ISSUED FOR APPROVAL	09.09.2022	SI	RUPA	SRK

ETIHAD WATER & ELECTRICITY

Electricity Directorate, P.O. Box 1072, Dubai

COMMITTEE:

Mohd MacDonald
PO Box 11302, Dubai
United Arab Emirates
T +971 (04) 206 8111
F +971 (04) 202 8550
W www.etad.gov.ae

MAN CONTRACTOR:

LINDENBERG EMIRATES LLC.
P.O. BOX 4253, ABU DHABI, UNITED ARAB EMIRATES

- SPECIAL NOTES:**
01. FOR WINDOW SILL LOCATION DETAILS REFER BUILDING ELEVATIONS E1, E2, E3& E4, DWG NO: 190E/2021(1)/LE/AQAH/02/30104
 02. ALL FINISHES TO BE FOLLOWED AS PER STANDARD BUILDING FINISHING SCHEDULE
 03. CABLE TRENCHES SHALL BE COVERED WITH CAST IN SITU SLAB ALONG WITH OPENING FOR VENTILATION AND TRENCH ACCESS. (VENTILATION OPENING SHALL BE COVERED WITH CHEQUERED PLATE & GRATING. TRENCH ACCESS OPENING SHALL BE PROVIDED WITH PRECAST CONCRETE SLAB STRIPS WEIGHING NOT MORE THAN 50 KG.)
 04. OIL/WATER TRENCHES SHALL BE COVERED WITH COBBLE STONE OVER GRATING.
 05. PRECAST CONCRETE SLAB SHALL BE WATER TIGHT.
 06. FOR CABLE SLEEVE DETAILS AND LEVELS, REFER RELATED APPROVED ELECTRICAL DRAWINGS
 07. FOOT BRIDGE MATERIAL SHALL BE STEEL GRATING AS PER SPECIFICATION.
 08. FIRE ESCAPE ROUTE IN BASEMENT SHALL BE MARKED WITH PHOTO LUMINOUS PAINT AS PER CIVIL DEFENSE REQUIREMENTS AND APPROVAL.

SITE DATUM ± 0.000 LVL CORRESPONDS TO $+25.60$ FMD (FUJAIRAH MUNICIPALITY DATUM)

CIVIL DESIGN CONSULTANT:

DUBAI CONSULTANTS:

DESIGNED BY: SRK

CHECKED BY: SRK

DATE: 09.09.2022

SCALE: 1:100

SIZE: A1

SHEET: 3 OF 3

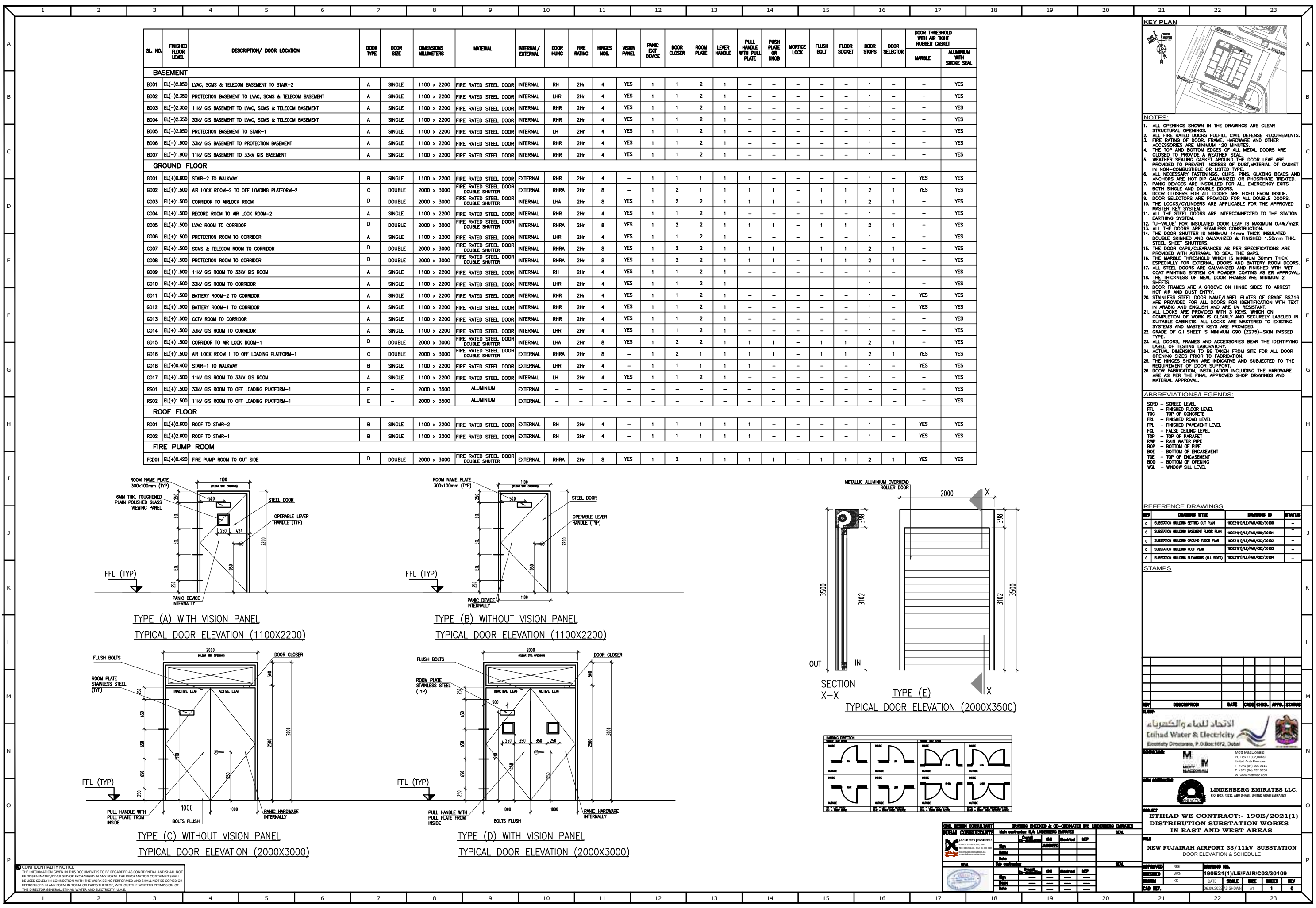
REV:

ETIHAD WE CONTRACT:- 190E/2021(1) DISTRIBUTION SUBSTATION WORKS IN EAST AND WEST AREAS

NEW FUJAIRAH AIRPORT 33/11KV SUBSTATION BUILDING SECTIONS (AT ALL REQUIRED LOCATIONS)

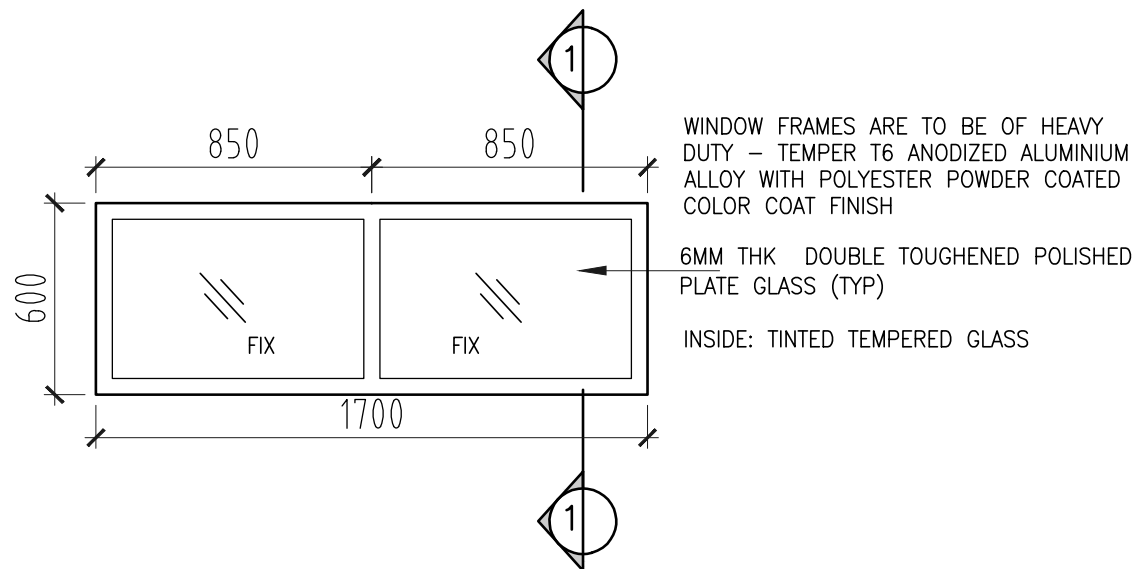
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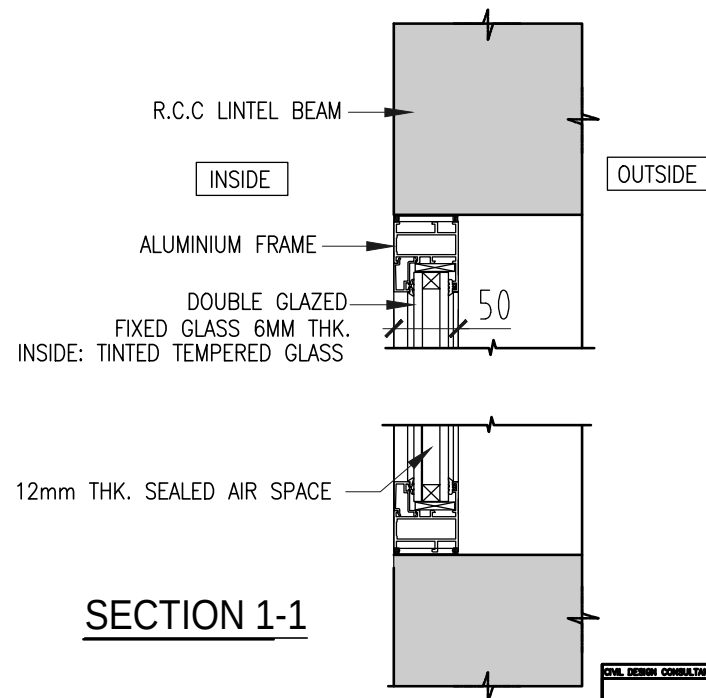


1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23																																																																																																																																																													
WINDOW SCHEDULE TABLE: <table><tr><th rowspan="2">WINDOW No.</th><th rowspan="2">WINDOW TYPE</th><th rowspan="2">WINDOW LOCATION</th><th rowspan="2">SILL HEIGHT (FROM ±0.00)</th><th colspan="2">OPENING SIZE</th><th colspan="2">MATERIALS</th><th rowspan="2">ELEVATION</th></tr><tr><th>WIDTH</th><th>HEIGHT</th><th>FRAME</th><th>WINDOW</th></tr><tr><td colspan="9">33/11kV SWITCHGEAR BUILDING</td></tr><tr><td colspan="9">GROUND FLOOR</td></tr><tr><td>GW01</td><td>W1</td><td>STAIRCASE-1</td><td>+2.695</td><td>1700</td><td>600</td><td>ALUMINIUM</td><td>DOUBLE GLAZED WINDOW</td><td>ELEVATION-1</td></tr><tr><td>GW02</td><td>W1</td><td>CCTV ROOM</td><td>+4.550</td><td>1700</td><td>600</td><td>ALUMINIUM</td><td>DOUBLE GLAZED WINDOW</td><td>ELEVATION-1</td></tr><tr><td>GW03</td><td>W1</td><td>AIR LOCK ROOM-1</td><td>+4.550</td><td>1700</td><td>600</td><td>ALUMINIUM</td><td>DOUBLE GLAZED WINDOW</td><td>ELEVATION-1</td></tr><tr><td>GW04</td><td>W1</td><td>33kV GIS ROOM</td><td>+4.550</td><td>1700</td><td>600</td><td>ALUMINIUM</td><td>DOUBLE GLAZED WINDOW</td><td>ELEVATION-1</td></tr><tr><td>GW05</td><td>W1</td><td>11kV GIS ROOM</td><td>+4.550</td><td>1700</td><td>600</td><td>ALUMINIUM</td><td>DOUBLE GLAZED WINDOW</td><td>ELEVATION-1</td></tr><tr><td>GW06</td><td>W1</td><td>CORRIDOR</td><td>+4.550</td><td>1700</td><td>600</td><td>ALUMINIUM</td><td>DOUBLE GLAZED WINDOW</td><td>ELEVATION-2</td></tr><tr><td>GW07</td><td>W1</td><td>AIR LOCK ROOM-2</td><td>+4.550</td><td>1700</td><td>600</td><td>ALUMINIUM</td><td>DOUBLE GLAZED WINDOW</td><td>ELEVATION-3</td></tr><tr><td>GW08</td><td>W1</td><td>RECORD ROOM</td><td>+4.550</td><td>1700</td><td>600</td><td>ALUMINIUM</td><td>DOUBLE GLAZED WINDOW</td><td>ELEVATION-3</td></tr><tr><td>GW09</td><td>W1</td><td>STAIRCASE-2</td><td>+2.695</td><td>1700</td><td>600</td><td>ALUMINIUM</td><td>DOUBLE GLAZED WINDOW</td><td>ELEVATION-3</td></tr><tr><td>GW13</td><td>W1</td><td>STAIRCASE-1</td><td>+6.141</td><td>1700</td><td>600</td><td>ALUMINIUM</td><td>DOUBLE GLAZED WINDOW</td><td>ELEVATION-1</td></tr><tr><td>GW14</td><td>W1</td><td>STAIRCASE-1</td><td>+6.141</td><td>1700</td><td>600</td><td>ALUMINIUM</td><td>DOUBLE GLAZED WINDOW</td><td>ELEVATION-2</td></tr><tr><td>GW15</td><td>W1</td><td>STAIRCASE-2</td><td>+2.695</td><td>1700</td><td>600</td><td>ALUMINIUM</td><td>DOUBLE GLAZED WINDOW</td><td>ELEVATION-3</td></tr><tr><td>GW16</td><td>W1</td><td>STAIRCASE-2</td><td>+6.141</td><td>1700</td><td>600</td><td>ALUMINIUM</td><td>DOUBLE GLAZED WINDOW</td><td>ELEVATION-4</td></tr><tr><td>GW17</td><td>W1</td><td>11kV GIS ROOM</td><td>+4.550</td><td>1700</td><td>600</td><td>ALUMINIUM</td><td>DOUBLE GLAZED WINDOW</td><td>ELEVATION-4</td></tr></table>																					WINDOW No.	WINDOW TYPE	WINDOW LOCATION	SILL HEIGHT (FROM ±0.00)	OPENING SIZE		MATERIALS		ELEVATION	WIDTH	HEIGHT	FRAME	WINDOW	33/11kV SWITCHGEAR BUILDING									GROUND FLOOR									GW01	W1	STAIRCASE-1	+2.695	1700	600	ALUMINIUM	DOUBLE GLAZED WINDOW	ELEVATION-1	GW02	W1	CCTV ROOM	+4.550	1700	600	ALUMINIUM	DOUBLE GLAZED WINDOW	ELEVATION-1	GW03	W1	AIR LOCK ROOM-1	+4.550	1700	600	ALUMINIUM	DOUBLE GLAZED WINDOW	ELEVATION-1	GW04	W1	33kV GIS ROOM	+4.550	1700	600	ALUMINIUM	DOUBLE GLAZED WINDOW	ELEVATION-1	GW05	W1	11kV GIS ROOM	+4.550	1700	600	ALUMINIUM	DOUBLE GLAZED WINDOW	ELEVATION-1	GW06	W1	CORRIDOR	+4.550	1700	600	ALUMINIUM	DOUBLE GLAZED WINDOW	ELEVATION-2	GW07	W1	AIR LOCK ROOM-2	+4.550	1700	600	ALUMINIUM	DOUBLE GLAZED WINDOW	ELEVATION-3	GW08	W1	RECORD ROOM	+4.550	1700	600	ALUMINIUM	DOUBLE GLAZED WINDOW	ELEVATION-3	GW09	W1	STAIRCASE-2	+2.695	1700	600	ALUMINIUM	DOUBLE GLAZED WINDOW	ELEVATION-3	GW13	W1	STAIRCASE-1	+6.141	1700	600	ALUMINIUM	DOUBLE GLAZED WINDOW	ELEVATION-1	GW14	W1	STAIRCASE-1	+6.141	1700	600	ALUMINIUM	DOUBLE GLAZED WINDOW	ELEVATION-2	GW15	W1	STAIRCASE-2	+2.695	1700	600	ALUMINIUM	DOUBLE GLAZED WINDOW	ELEVATION-3	GW16	W1	STAIRCASE-2	+6.141	1700	600	ALUMINIUM	DOUBLE GLAZED WINDOW	ELEVATION-4	GW17	W1	11kV GIS ROOM	+4.550	1700	600	ALUMINIUM	DOUBLE GLAZED WINDOW	ELEVATION-4	KEY PLAN	
																									WINDOW No.	WINDOW TYPE	WINDOW LOCATION	SILL HEIGHT (FROM ±0.00)		OPENING SIZE		MATERIALS		ELEVATION																																																																																																																																																	
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NOTES: 1. THE WINDOWS ARE DESIGNED AND ERECTED SO THAT CLEANING AND MAINTENANCE COULD BE CARRIED OUT FROM INSIDE OF THE SUBSTATION BUILDING. 2. THE WINDOW FRAMES MADE OF EXTRUDED ALUMINIUM BARS AND GLAZING SECTIONS HAVE A CHEMICAL COMPOSITION AND MANUFACTURING TECHNIQUES USED. 3. THE ALL METALLIC WINDOWS AND ITS COMPONENTS ARE PROPERLY EARTHED. 4. THE FIRE RATING REQUIRED FOR WINDOW GLASS PANELS AND GLASS BLOCKS ARE AS PER SPECIFICATION. 5. EXTERNAL FACE OF THE WINDOW GLASS ARE TINTED REFLECTIVE TYPE. 6. ALL ALUMINIUM WORKS ARE POLYESTER POWDER COATED HEAVY DUTY ALUMINIUM SECTIONS OF 2MM THICKNESS. 7. WINDOWS ARE WELL RECESSED INTO THE WALLS. 8. GLASS ARE FIXED WITH UV PROTECTED SEALANT.																					ABBREVIATIONS/LEGENDS: FFL - FINISHED FLOOR LEVEL LVL - LEVEL EL - ELEVATION LEVEL W1 - WINDOW - RCC WALL/COLUMN - 250 THK.(20MM PLASTER) THERMAL BLOCK WALL																																																																																																																																																														

FIRE PUMP ROOM								
GW10	W1	FIRE PUMP ROOM	+4.550	1700	600	ALUMINIUM	DOUBLE GLAZED WINDOW	ELEVATION-1
GW11	W1		+4.550	1700	600	ALUMINIUM	DOUBLE GLAZED WINDOW	ELEVATION-3
GW12	W1		+4.550	1700	600	ALUMINIUM	DOUBLE GLAZED WINDOW	ELEVATION-3



ELEVATION OF TYPE (W1) WINDOW



SECTION 1-1

NOTES:

1. THE WINDOWS ARE DESIGNED AND ERECTED SO THAT CLEANING AND MAINTENANCE COULD BE CARRIED OUT FROM INSIDE OF THE SUBSTATION BUILDING.
2. WINDOW FRAME IS MADE OF EXTRUDED ALUMINUM BARS AND GLAZING SECTIONS HAVE A CHEMICAL COMPOSITION AND MANUFACTURING TECHNIQUES USED.
3. THE ALL METALLIC WINDOWS AND ITS COMPONENTS ARE PROPERLY EARTHED.
4. THE FIRE RATING REQUIRED FOR WINDOW GLASS PANELS AND GLASS BLOCKS ARE AS PER SPECIFICATION.
5. EXTERNAL FACE OF THE WINDOW GLASS ARE TINTED REFLECTIVE TYPE.
6. ALL ALUMINUM WORKS ARE POLYESTER POWDER COATED HEAVY DUTY ALUMINUM SECTIONS OF 2MM THICKNESS.
7. WINDOWS ARE NEET RECESSED INTO THE WALLS.
8. GLASS ARE FIXED WITH UV PROTECTED SEALANT.

ABBREVIATIONS/LEGENDS:

FFL - FINISHED FLOOR LEVEL
LVL - LEVEL
EL - ELEVATION LEVEL
WT - WINDOW

 - RCC WALL/COLUMN

 - 250 THK.(20MM PLASTER)
THERMAL BLOCK WALL

REFERENCE DRAWINGS			
REV	DRAWING TITLE	DRAWING ID	STATUS
0	SUBSTATION BUILDING SETTING OUT PLAN	190E21(1)/A/E/FWR/C02/20100	—
0	SUBSTATION BUILDING BASEMENT FLOOR PLAN	190E21(1)/A/E/FWR/C02/20101	—
0	SUBSTATION BUILDING GROUND FLOOR PLAN	190E21(1)/A/E/FWR/C02/20102	—
0	SUBSTATION BUILDING ROOF FLOOR PLAN	190E21(1)/A/E/FWR/C02/20103	—
0	SUBSTATION BUILDING SECTIONS (AT ALL LEVELS & ELEVATIONS)	190E21(1)/A/E/FWR/C02/20106	—

[illegible]

REV	DESCRIPTION	DATE	CASH	CHEQ.	APPRO.	STATUS
00000000	اتحاد المياه والكهرباء Ehuhad Water & Electricity Electricity Directorate, P.O.Box: 1072, Dubai  					
	 McDonald's PO Box 11302 Dubai United Arab Emirates T +971 (04) 206 9011 F +971 (04) 232 8000 W www.mcdtrac.com					

LINDENBERG EMIRATES LLC.
P.O. BOX: 42630, ABU DHABI, UNITED ARAB EMIRATES

PROJECT
ETIHAD WE CONTRACT:- 190E/2021(1)
DISTRIBUTION SUBSTATION WORKS
IN EAST AND WEST AREAS

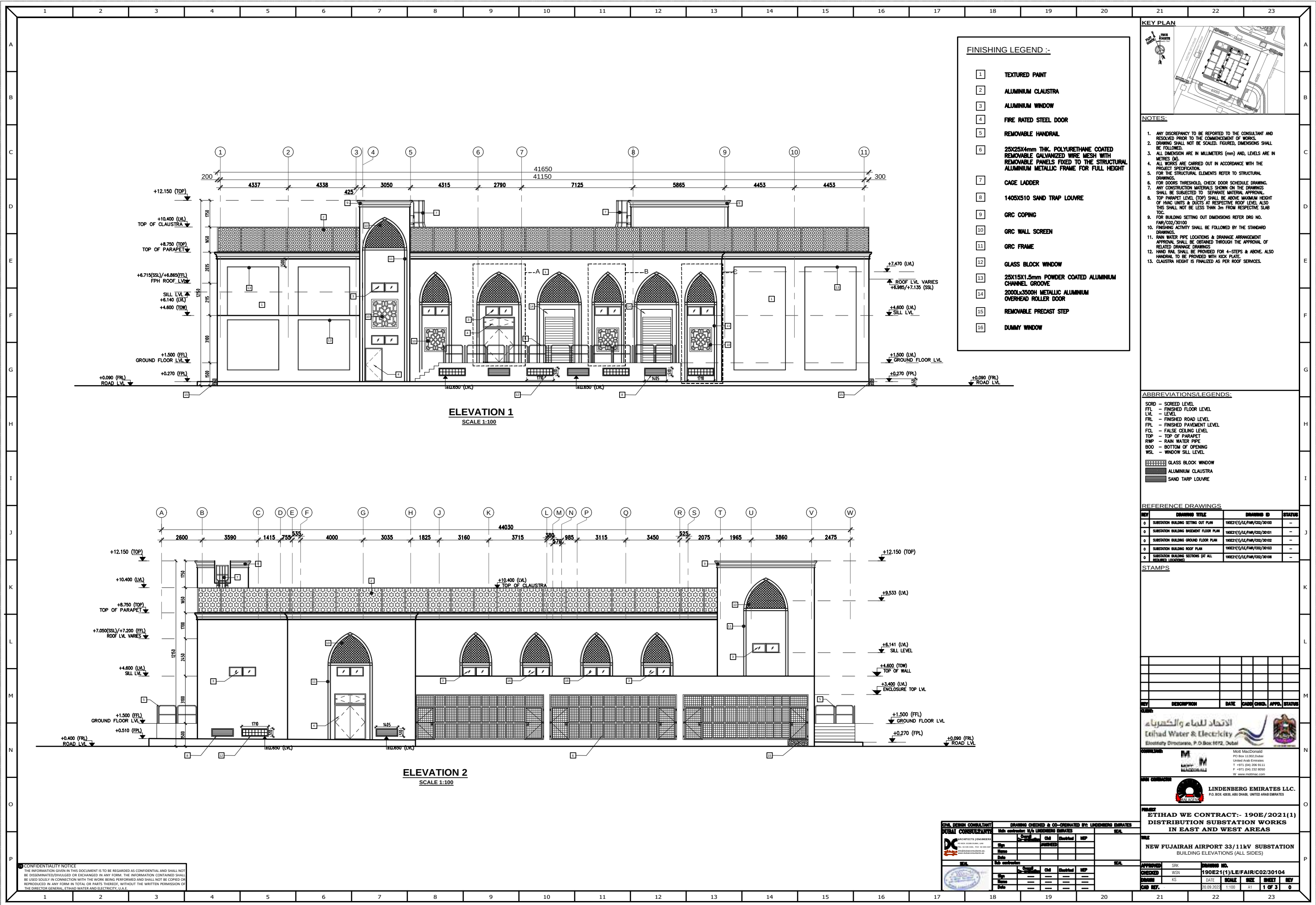
NEW FUJAIRAH AIRPORT 33/11kV SUBSTATION
WINDOW ELEVATION & SCHEDULE

APPROVED	SRK	DRAWING NO.				
CHECKED	WSN	190E21(1)LE/FAIR/C02/30110				
DRAWN	KS	DATE	SCALE	SIZE	SHEET	REV
CAD REF.	-	07.09.2022	1:100	A1	1	0

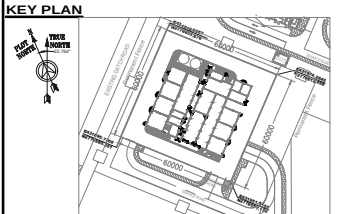
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VIA. DESIGN COMBATANT	DRAWING CHECKED & CO-ORDINATED BY: LINDSEIGH BARBATES					SEAL
	Info contained: N/A LINDSEIGH BARBATES					
	Overall Co-ordinated	CM	Electrical	MEP		
	Site	_____	_____	_____	_____	
	Name	_____	_____	_____	_____	
	Date	_____	_____	_____	_____	
SEAL	Sub contract					SEAL
	Overall Co-ordinated	CM	Electrical	MEP		
	Site	_____	_____	_____	_____	
	Name	_____	_____	_____	_____	
	Date	_____	_____	_____	_____	

<



FINISHING LEGEND :-	
1	TEXTURED PAINT
2	ALUMINIUM CLAUSTRA
3	ALUMINIUM WINDOW
4	FIRE RATED STEEL DOOR
5	REMOVABLE HANDRAIL
6	25X25X4mm THK. POLYURETHANE COATED REMOVABLE GALVANIZED WIRE MESH WITH REMOVABLE PANELS FIXED TO THE STRUCTURAL ALUMINIUM METALLIC FRAME FOR FULL HEIGHT
7	CAGE LADDER
8	1405X510 SAND TRAP LOUVRE
9	GRC COPING
10	GRC WALL SCREEN
11	GRC FRAME
12	GLASS BLOCK WINDOW
13	25X15X1.5mm POWDER COATED ALUMINIUM CHANNEL GROOVE
14	2000Lx3500H METALLIC ALUMINIUM OVERHEAD ROLLER DOOR
15	REMOVABLE PRECAST STEP
16	DUMMY WINDOW



- NOTES:
1. ANY DISCREPANCY TO BE REPORTED TO THE CONSULTANT AND RESOLVED PRIOR TO THE COMMENCEMENT OF WORKS.
 2. DRAWING SHALL NOT BE SCALED, FIGURED, DIMENSIONS SHALL BE FOLLOWED.
 3. ALL DIMENSION ARE IN MILLIMETERS (mm) AND, LEVELS ARE IN METRES (M).
 4. ALL WORKS ARE CARRIED OUT IN ACCORDANCE WITH THE PROJECT SPECIFICATION.
 5. FOR THE STRUCTURAL ELEMENTS REFER TO STRUCTURAL DRAWINGS.
 6. FOR DOORS THRESHOLD, CHECK DOOR SCHEDULE DRAWING.
 7. ANY CONSTRUCTION MATERIALS SHOWN ON THE DRAWINGS SHALL BE SUBJECTED TO SEPARATE MATERIAL APPROVAL.
 8. TOP PARAPET LEVEL (TOP) SHALL BE ABOVE MAXIMUM HEIGHT OF HVAC UNITS & DUCTS AT RESPECTIVE ROOF LEVEL ALSO THIS SHALL NOT BE LESS THAN 3m FROM RESPECTIVE SLAB TOP.
 9. FOR BUILDING SETTING OUT DIMENSIONS REFER DRG NO. FAIR/C02/30100
 10. FINISHING ACTIVITY SHALL BE FOLLOWED BY THE STANDARD DRAWINGS.
 11. RAIN WATER PIPE LOCATIONS & DRAINAGE ARRANGEMENT APPROVAL SHALL BE OBTAINED THROUGH THE APPROVAL OF RELATED DRAINAGE DRAWINGS.
 12. HAND RAIL SHALL BE PROVIDED FOR 4-STEPS & ABOVE, ALSO HANDRAIL TO BE PROVIDED WITH KICK PLATE.
 13. CLAUSTRA HEIGHT IS FINALIZED AS PER ROOF SERVICES.

ABBREVIATIONS/LEGENDS:	
SCRD	- SCORED LEVEL
FFL	- FINISHED FLOOR LEVEL
LVL	- LEVEL
FRL	- FINISHED ROAD LEVEL
FPL	- FINISHED PAVEMENT LEVEL
FCL	- FALSE CEILING LEVEL
TOP	- TOP OF PARAPET
RWP	- RAIN WATER PIPE
BOO	- BOTTOM OF OPENING
WSL	- WINDOW SILL LEVEL
	GLASS BLOCK WINDOW
	ALUMINIUM CLAUSTRA
	SAND TRAP LOUVRE

REFERENCE DRAWINGS		
REV	DRAWING TITLE	DRAWING NO. STATUS
0	SUBSTATION BUILDING SETTING OUT PLAN	190E21(1)/LE/FAIR/C02/30100 -
0	SUBSTATION BUILDING BASEMENT FLOOR PLAN	190E21(1)/LE/FAIR/C02/30101 -
0	SUBSTATION BUILDING GROUND FLOOR PLAN	190E21(1)/LE/FAIR/C02/30102 -
0	SUBSTATION BUILDING ROOF PLAN	190E21(1)/LE/FAIR/C02/30103 -
0	SUBSTATION BUILDING SECTIONS (AT ALL REQUIRED LOCATIONS)	190E21(1)/LE/FAIR/C02/30108 -

STAMPS			
REV	DESCRIPTION	DATE	CADD CHNG. APPR. STATUS

CLIENT
الاتحاد للمياه والكهرباء
Etihad Water & Electricity
Electricity Directorate, P.O. Box: 1072, Dubai

CONSULTANT
LINDENBERG EMIRATES LLC.
P.O. BOX: 4263, ABU DHABI, UNITED ARAB EMIRATES

CONTRACTOR
ETIHAD WE CONTRACT:- 190E/2021(1)
DISTRIBUTION SUBSTATION WORKS
IN EAST AND WEST AREAS

PROJECT
NEW FUJAIRAH AIRPORT 33/11kV SUBSTATION
BUILDING ELEVATIONS (ALL SIDES)

CIVIL DESIGN CONSULTANT		DRAWING CHECKED & CO-ORDINATED BY LINDENBERG EMIRATES				APPROVED	
DUBAI CONSULTANTS		Checked	Co-ordinated	Checked	MP	SRK	DRAWING NO.
DR. MOHAMMAD ALI AL-SAYED							190E21(1)/LE/FAIR/C02/30104
							DATE
							20.09.2022
							SCALE
							1:100
							SIZE
							A1
							SHEET
							1 OF 3
							REV
							0

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- | | |
|----|--|
| 1 | TEXTURED PAINT |
| 2 | ALUMINUM CLAUSTRAS |
| 3 | ALUMINUM WINDOW |
| 4 | FIRE RATED STEEL DOOR |
| 5 | REMOVABLE HANDRAIL |
| 6 | 25X25X4mm THK. POLYURETHANE COATED
REMOVABLE GALVANIZED WIRE MESH WITH
REMOVABLE PANELS FIXED TO THE STRUCTURAL
ALUMINUM METALLIC FRAME FOR FULL HEIGHT |
| 7 | CAGE LADDER |
| 8 | 1405X510 SAND TRAP LOUVRE |
| 9 | GRC COPING |
| 10 | GRC WALL SCREEN |
| 11 | GRC FRAME |
| 12 | GLASS BLOCK WINDOW |
| 13 | 25X15X1.5mm POWDER COATED ALUMINUM
CHANNEL GROOVE |
| 14 | 2000LX3500H METALLIC ALUMINUM
OVERHEAD ROLLER DOOR |
| 15 | REMOVABLE PRECAST STEP |
| 16 | DUMMY WINDOW |



1. ANY DISCREPANCY TO BE REPORTED TO THE CONSULTANT AND RESOLVED PRIOR TO THE COMMENCEMENT OF WORKS.
2. DRAWING SHALL NOT BE SCALDED, FRIED, DIMENSIONS SHALL BE MAINTAINED.
3. ALL DIMENSION ARE IN MILLIMETERS (mm) AND, LEVELS ARE IN METRES (M).
4. ALL WORK ARE CARRIED OUT IN ACCORDANCE WITH THE PROJECT SPECIFICATION.
5. FOR THE STRUCTURAL ELEMENTS REFER TO STRUCTURAL DRAWINGS.
6. FOR DOORS THRESHOLD, CHECK DOOR SCHEDULE DRAWING.
7. FOR CONSTRUCTION MATERIALS SHOWN ON THE DRAWING, IT SHALL BE SUBJECTED TO SEPARATE MATERIAL APPROVAL.
8. TOP PARAMETER LEVEL (TOP) SHALL BE ABOVE MAXIMUM HEIGHT OF CONSTRUCTION MATERIALS. MINIMUM CLEARANCE FROM THIS SHALL NOT BE LESS THAN 3m FROM RESPECTIVE SLAB TOP.
9. FOR BUILDING SETTING OUT DIMENSION REFER Dwg NO. FAIR/CO2/30100 DRAWINGS.
10. FINISHING ACTIVITY SHALL BE FOLLOWED BY THE STANDARD DRAWINGS.
11. RAIN WATER PIPE LOCATIONS & DRAINAGE ARRANGEMENT APPROVAL SHALL BE OBTAINED THROUGH THE APPROVAL OF DRAINAGE DEPARTMENT.
12. HAND RAIL SHALL BE PROVIDED FOR 4-STEPS & ABOVE, ALSO HAND RAIL BE PROVIDED FOR ALL STAIRS.
13. LAUSTRA HEIGHT IS SPECIFIED AS PER ROOF SERVICES.

ABBREVIATIONS/LEGENDS:

SCRD	- SCREED LEVEL
FFL	- FINISHED FLOOR LEVEL
LVL	- LEVEL
FRL	- FINISHED ROAD LEVEL
FPL	- FINISHED PAVEMENT LEVEL
FCL	- FALSE CEILING LEVEL
TOP	- TOP OF PARAPET
RWP	- RAIN WATER PIPE
BOO	- BOTTOM OF OPENING
WSL	- WINDOW SILL LEVEL

 GLASS BLOCK WINDOW
 ALUMINIUM CLAUSTRAS
 SAND TARP LOUVRE

REFERENCE DRAWINGS

REV	DRAWING TITLE	DRAWING ID	STATUS
0	SUBSTATION BUILDING SETTING OUT PLAN	190E2(1)/LE/PAH/C02/30100	—
0	SUBSTATION BUILDING BASEMENT FLOOR PLAN	190E2(1)/LE/PAH/C02/30101	—
0	SUBSTATION BUILDING GROUND FLOOR PLAN	190E2(1)/LE/PAH/C02/30102	—
0	SUBSTATION BUILDING ROOF PLAN	190E2(1)/LE/PAH/C02/30103	—
0	SUBSTATION BUILDING SECTIONS (AT ALL	190E2(1)/LE/PAH/C02/30106	—

STAMPS

KEY	DESCRIPTION	DATE	CADD	CHKD.	APPD.	STATUS
-----	-------------	------	------	-------	-------	--------

CLIENT:

الاتحاد للماء والكهرباء
Etihad Water & Electricity
Electricity Directorate, P.O.Box:1672, Dubai

CONTACT:  Mott MacDonald
PO Box 11302, Dubai
United Arab Emirates
T +971 (04) 206 9111
F +971 (04) 232 8050
W www.mottmac.com

MAIN CONTRACTOR



LINDENBERG EMIRATES LLC
P.O. BOX: 42630, ABU DHABI, UNITED ARAB EMIRATES

**ETIHAD WE CONTRACT:- 190E/2021(1
DISTRIBUTION SUBSTATION WORKS
IN EAST AND WEST AREAS**

NEW FUJAIRAH AIRPORT 33/11kV SUBSTATION
BUILDING ELEVATIONS (ALL SIDES)

APPROVED	SRK	DRAWING NO.				
CHECKED	WSN	190E21(1)/LE/FAIR/C02/30104				
DRAWN	KS	DATE	SCALE	SIZE	SHEET	REV
CAD REF.		20.09.2023	1:25	A1	3 OF 3	0

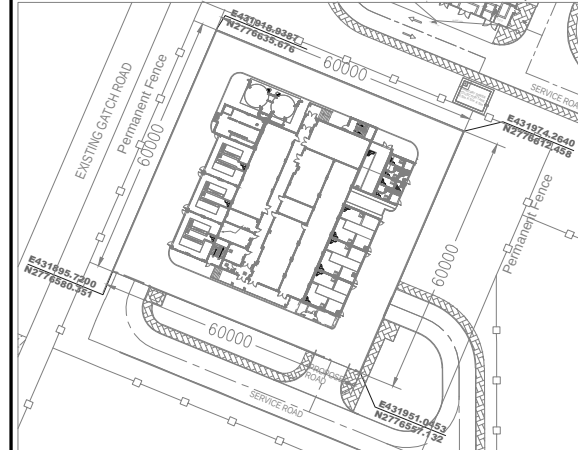
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SITE DATUM ± 0.000 LVL CORRESPONDS TO
 $+25.60$ FMD (FUJAIRAH MUNICIPALITY DATUM)

SITE LOCATION IS INSIDE THE AIRPORT

BUILDING NAME	SUBSTATION BUILDING
PLOT NO.	58 A
PLOT DIM.	60.00X60.00 (3600Msq)
LAND USE	SUBSTATION
AREA OF B. FLOOR	1541.56 Msq
AREA OF G. FLOOR	1547.38 Msq
TOTAL BUILT UP AREA	3129.22 Msq
TOTAL BUILT AREA	3129.22 Msq
AREA OF PLOT	3600 Msq
COVER AREA	0.43
F . A . R	43 %
BOUNDARY WALL LENGTH	240 m



Client Data

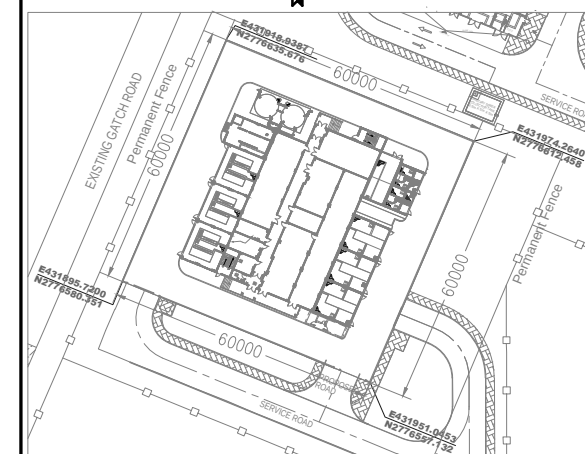
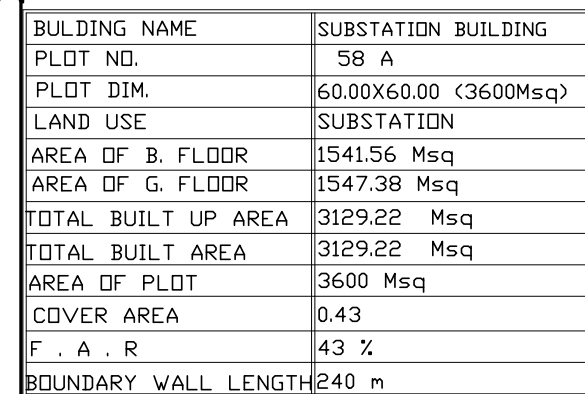
الاتحاد للماء والكهرباء
Etihad Water & Electricity
Electricity Directorate, P.O.Box:1672, Dubai

Consultant Data

Design Corner Engineering Consultant
ديزاين كورنر للاستشارات الهندسية
P.O. BOX: 340209 DUBAI - U.A.E.
design.corner94@gmail.com

Location	FUJAIRAH AIRPORT	Stamp
Plot Code	58 A	
No. of Floor Permitted	G+1	
Consultant Name	DESIGN CORNER ENGINEERING CONSULTANT	
Client	ETHIHAD WE	
Project	ETHIHAD WE CONTRACT:- 190E/2021(1) DISTRIBUTION SUBSTATION WORKS IN EAST AND WEST AREAS	
Drawing Title	NEW FUJAIRAH AIRPORT 33/11kV SUBSTATION BASEMENT FLOOR PLAN	
Drawing No.	190E21(1)/E/FAIR/C02/30101	
Architect Name	ARCH/ HASSAN IBRAHIM	
Civil Engineer Name	ENG/ ANVAR SADIK TP	
Date	AUGUST / 2022	
Scale	1:100	

WE, FROM DESIGN CORNER ENG. CONSULTANTS,
UNDERTAKES THAT THE DRAWING SUBMITTED IN ON LINE
22035973 IS SAME AS SUBMITTED IN FINAL APPROVAL



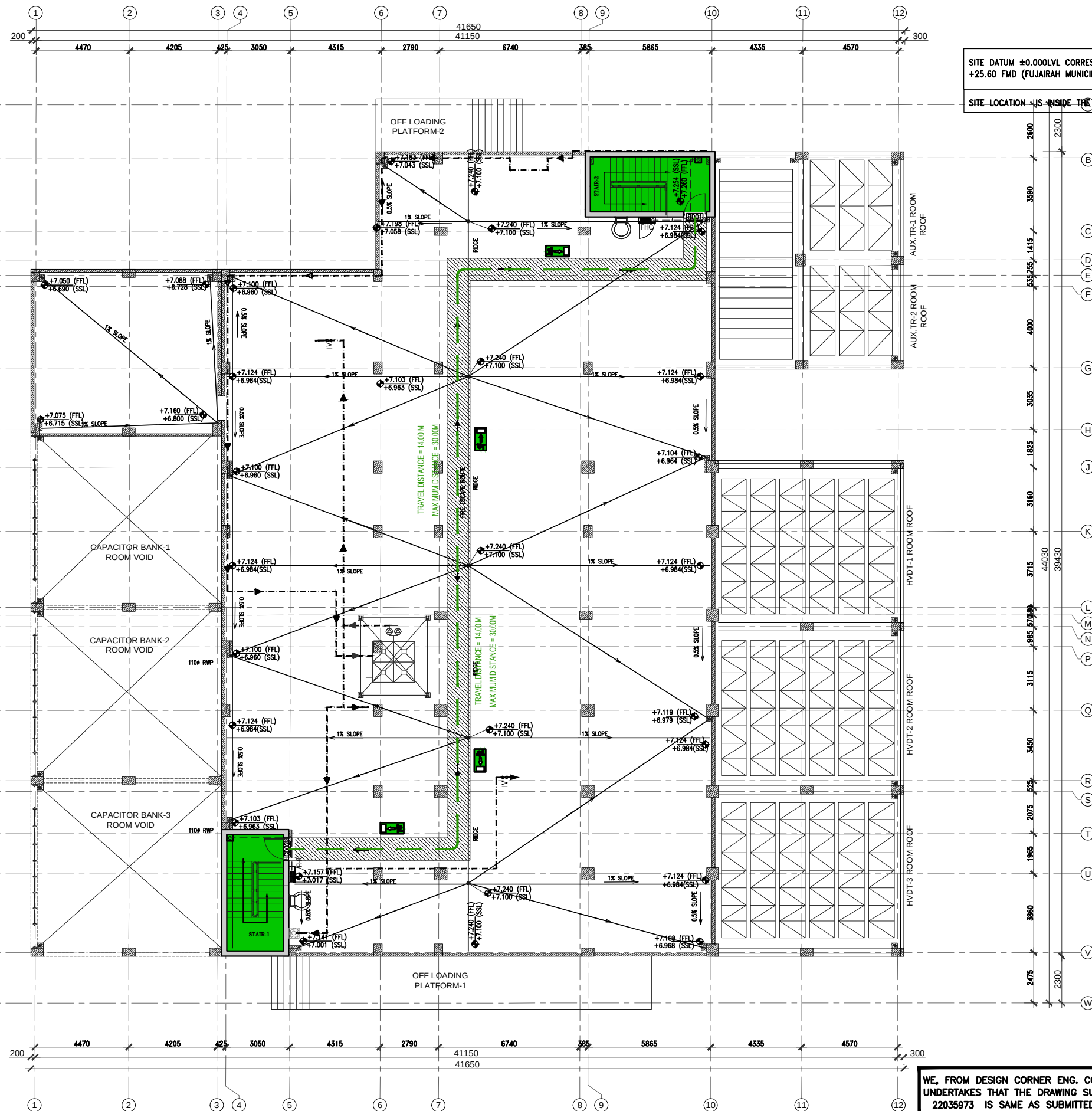
الاتحاد للماء والكهرباء
Etihad Water & Electricity
Electricity Directorate, P.O.Box:1672, Du



Design Corner Engineering Consultant
ديزاين كورنر للاستشارات الهندسية

☎ 002 444 1227 010-999 9999 010-794 5479 P.O.BOX: 54029 DIBBA-FUJ
✉ design.corner94@gmail.com Dibba - Fujairah - UAE - Next to G16

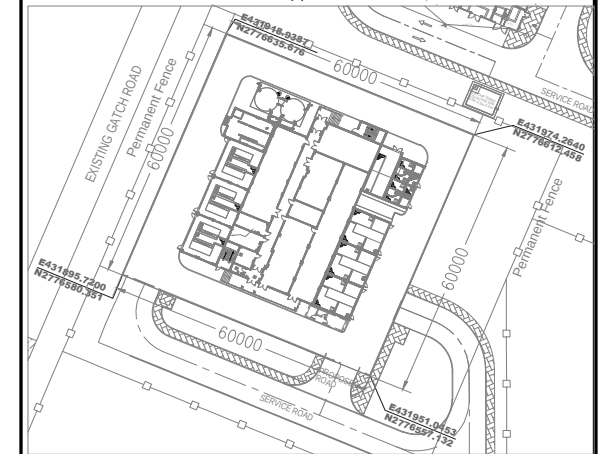
Location	FUJAIRAH AIRPORT	Stamp
Plot Code	58 A	
No. of Floor Permitted	G+1	
Consultant Name	DESIGN CORNER ENGINEERING CONSULTANT	
Client	ETHIHAD WE	
Project	ETHIHAD WE CONTRACT- 190E/2021(1) DISTRIBUTION SUBSTATION WORKS IN EAST AND WEST AREAS	
Drawing Title	NEW FUJAIRAH AIRPORT 33/11kV SUBSTATION BUILDING FIRE ESCAPE ROUTE GROUND FLOOR PLAN	
Drawing No.	-	
Architect Name	ARCH/ HASSAN IBRAHIM	
Civil Engineer Name	ENG/ ANVAR SADIK TP	
Date	AUGUST / 2022	
Scale	1:100	



SITE DATUM ± 0.000 LVL CORRESPONDS TO
 $+25.60$ FMD (FUJAIRAH MUNICIPALITY DATUM)

SITE LOCATION IS INSIDE THE AIRPORT

BUILDING NAME	SUBSTATION BUILDING
PLOT NO.	58 A
PLOT DIM.	60.00X60.00 (3600Msq)
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TOTAL BUILT AREA	3129.22 Msq
AREA OF PLOT	3600 Msq
COVER AREA	0.43
F . A . R	43 %
BOUNDARY WALL LENGTH	240 m



Client Data



Consultant Data

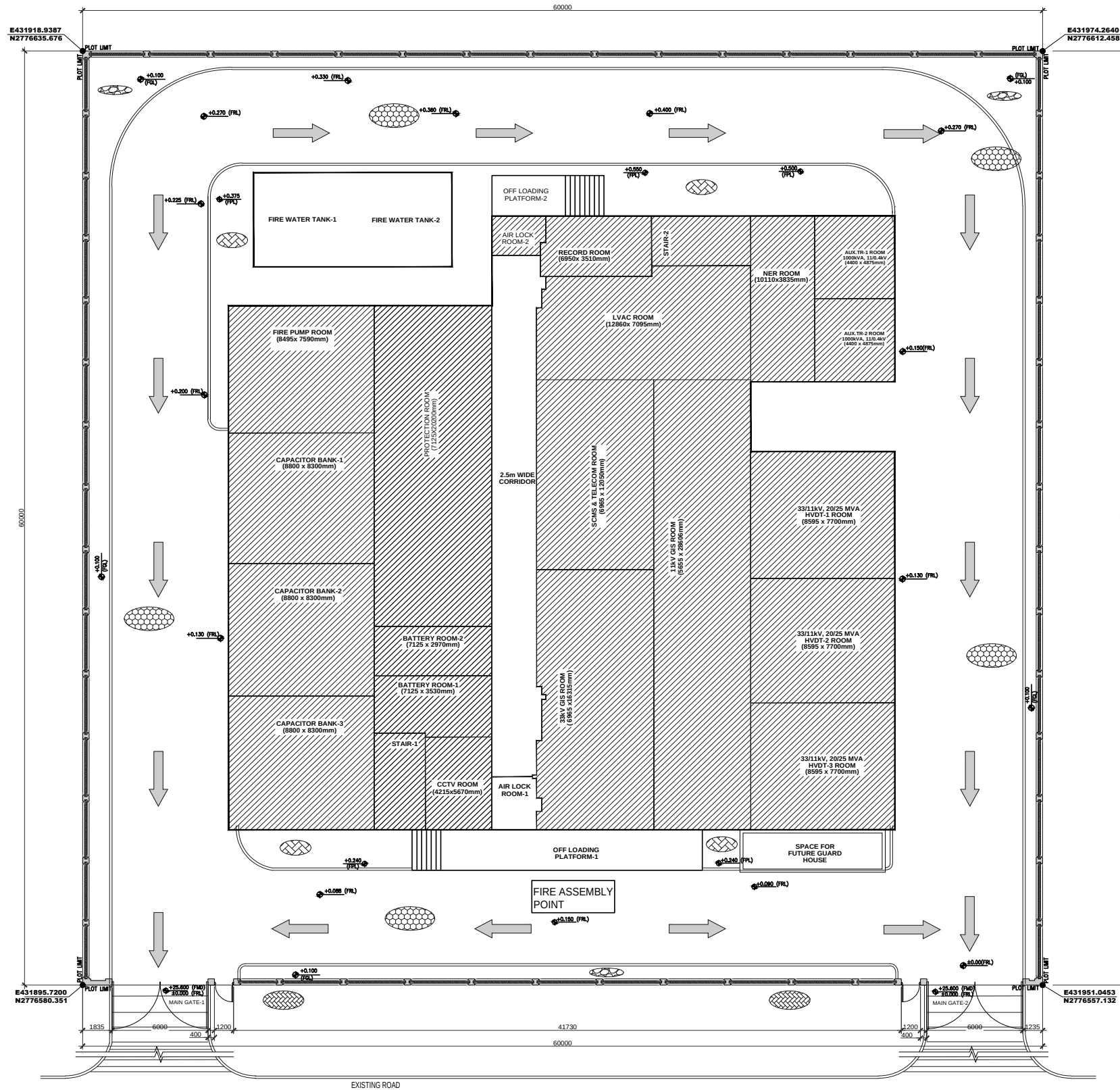


Location	FUJAIRAH AIRPORT	Stamp
Plot Code	58 A	
No. of Floor Permitted	G+1	
Consultant Name	DESIGN CORNER ENGINEERING CONSULTANT	
Client	ETHIHAD WE	
Project	ETHIHAD WE CONTRACT:- 190E/2021(1) DISTRIBUTION SUBSTATION WORKS IN EAST AND WEST AREAS	
Drawing Title	NEW FUJAIRAH AIRPORT 33/11kV SUBSTATION BUILDING FIRE ESCAPE ROUTE ROOF FLOOR PLAN	
Drawing No.	-	
Architect Name	ARCH/ HASSAN IBRAHIM	
Civil Engineer Name	ENG/ ANVAR SADIK TP	
Date	AUGUST / 2022	
Scale	1:100	

WE, FROM DESIGN CORNER ENG. CONSULTANTS,
UNDERTAKES THAT THE DRAWING SUBMITTED IN ON LINE
22035973 IS SAME AS SUBMITTED IN FINAL APPROVAL

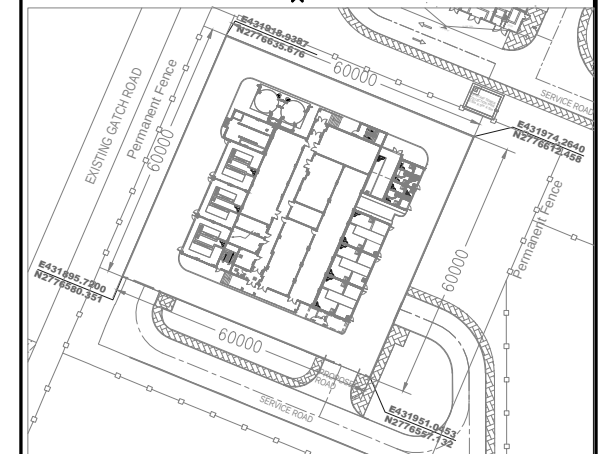
SITE DATUM ± 0.000 LVL CORRESPONDS TO
+25.60 FMD (FUJAIRAH MUNICIPALITY DATUM)

SITE LOCATION IS INSIDE THE AIRPORT



WE, FROM DESIGN CORNER ENG. CONSULTANTS,
UNDERTAKES THAT THE DRAWING SUBMITTED IN ON LINE
22035973 IS SAME AS SUBMITTED IN FINAL APPROVAL

BUILDING NAME	SUBSTATION BUILDING
PLOT NO.	58 A
PLOT DIM.	60.00X60.00 (3600Msq)
LAND USE	SUBSTATION
AREA OF B. FLOOR	1541.56 Msq
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AREA OF PLOT	3600 Msq
COVER AREA	0.43
F . A . R	43 %
BOUNDARY WALL LENGTH	240 m



Client Data

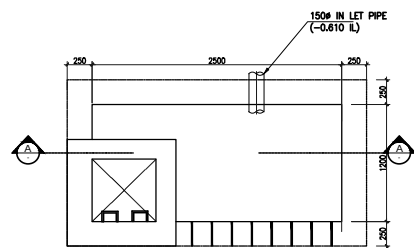
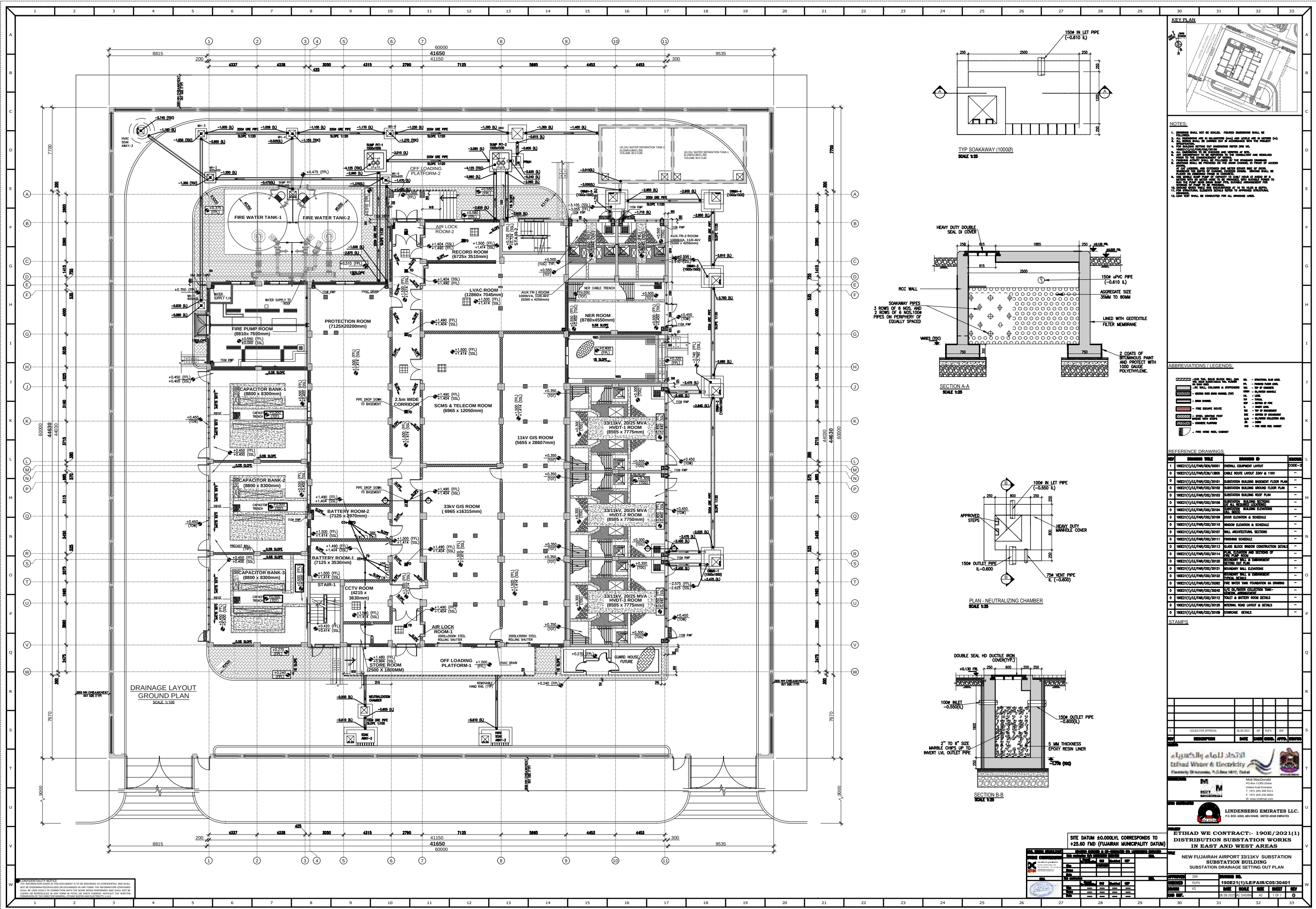
الاتحاد للماء والكهرباء
Ethihad Water & Electricity
Electricity Directorate, P.O.Box:1672, Dubai



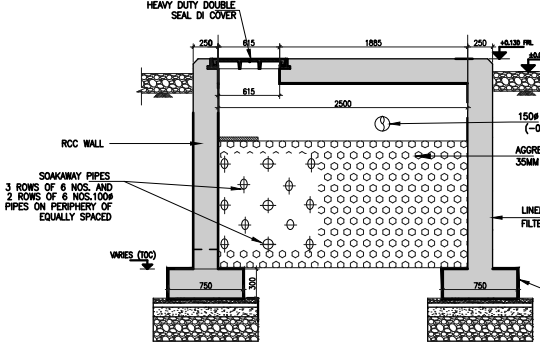
Consultant Data



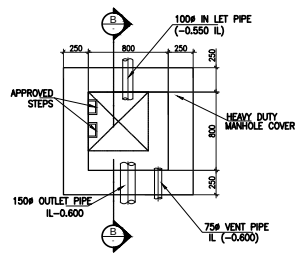
Location	FUJAIRAH AIRPORT	Stamp
Plot Code	58 A	
No. of Floor Permitted	G+1	
Consultant Name	DESIGN CORNER ENGINEERING CONSULTANT	
Client	ETHIHAD WE	
Project	ETHIHAD WE CONTRACT:- 190E/2021(1) DISTRIBUTION SUBSTATION WORKS IN EAST AND WEST AREAS	
Drawing Title	NEW FUJAIRAH AIRPORT 33/11kV SUBSTATION BUILDING FIRE ESCAPE ROUTE SETTING OUT PLAN	
Drawing No.	-	
Architect Name	ARCH/ HASSAN IBRAHIM	
Civil Engineer Name	ENG/ ANVAR SADIQ TP	
Date	AUGUST / 2022	
Scale	1:100	



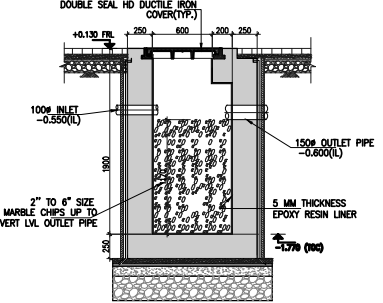
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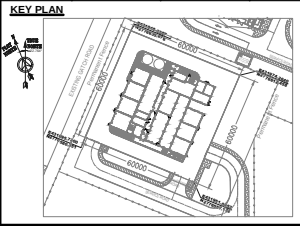
SECTION A-A
SCALE 1:25



PLAN - NEUTRALIZING CHAMBER
SCALE 1:25



SECTION B-B
SCALE 1:25



- NOTES:
1. ALL DIMENSIONS SHALL BE IN METERS (M) AND MILLIMETERS (MM) UNLESS OTHERWISE SPECIFIED.
 2. ALL DIMENSIONS SHALL BE TO THE CENTERLINE OF THE PIPE UNLESS OTHERWISE SPECIFIED.
 3. ALL DIMENSIONS SHALL BE TO THE CENTERLINE OF THE PIPE UNLESS OTHERWISE SPECIFIED.
 4. ALL DIMENSIONS SHALL BE TO THE CENTERLINE OF THE PIPE UNLESS OTHERWISE SPECIFIED.
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 11. ALL DIMENSIONS SHALL BE TO THE CENTERLINE OF THE PIPE UNLESS OTHERWISE SPECIFIED.
 12. ALL DIMENSIONS SHALL BE TO THE CENTERLINE OF THE PIPE UNLESS OTHERWISE SPECIFIED.

ABBREVIATIONS / LEGENDS:

1. 100mm	100mm	100mm	100mm
2. 100mm	100mm	100mm	100mm
3. 100mm	100mm	100mm	100mm
4. 100mm	100mm	100mm	100mm
5. 100mm	100mm	100mm	100mm
6. 100mm	100mm	100mm	100mm
7. 100mm	100mm	100mm	100mm
8. 100mm	100mm	100mm	100mm
9. 100mm	100mm	100mm	100mm
10. 100mm	100mm	100mm	100mm
11. 100mm	100mm	100mm	100mm
12. 100mm	100mm	100mm	100mm

REFERENCE DRAWINGS

NO.	DESCRIPTION	DATE	BY	CHKD	APPD
1	1. 100mm	10.10.2021	MT	RETS	SRK
2	2. 100mm	10.10.2021	MT	RETS	SRK
3	3. 100mm	10.10.2021	MT	RETS	SRK
4	4. 100mm	10.10.2021	MT	RETS	SRK
5	5. 100mm	10.10.2021	MT	RETS	SRK
6	6. 100mm	10.10.2021	MT	RETS	SRK
7	7. 100mm	10.10.2021	MT	RETS	SRK
8	8. 100mm	10.10.2021	MT	RETS	SRK
9	9. 100mm	10.10.2021	MT	RETS	SRK
10	10. 100mm	10.10.2021	MT	RETS	SRK
11	11. 100mm	10.10.2021	MT	RETS	SRK
12	12. 100mm	10.10.2021	MT	RETS	SRK

STAMPS

1. 100mm	100mm	100mm	100mm
2. 100mm	100mm	100mm	100mm
3. 100mm	100mm	100mm	100mm
4. 100mm	100mm	100mm	100mm
5. 100mm	100mm	100mm	100mm
6. 100mm	100mm	100mm	100mm
7. 100mm	100mm	100mm	100mm
8. 100mm	100mm	100mm	100mm
9. 100mm	100mm	100mm	100mm
10. 100mm	100mm	100mm	100mm
11. 100mm	100mm	100mm	100mm
12. 100mm	100mm	100mm	100mm

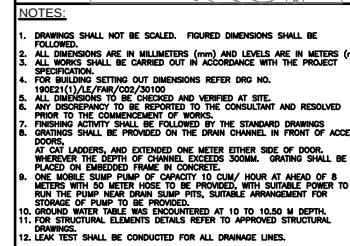
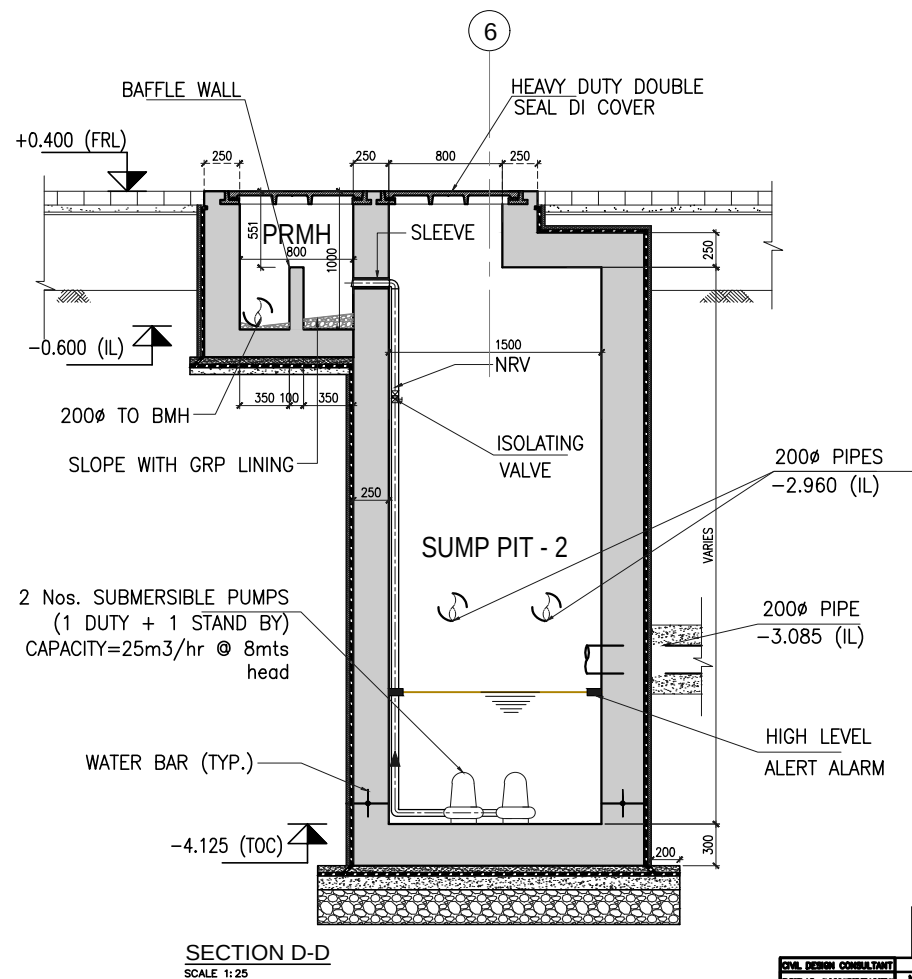
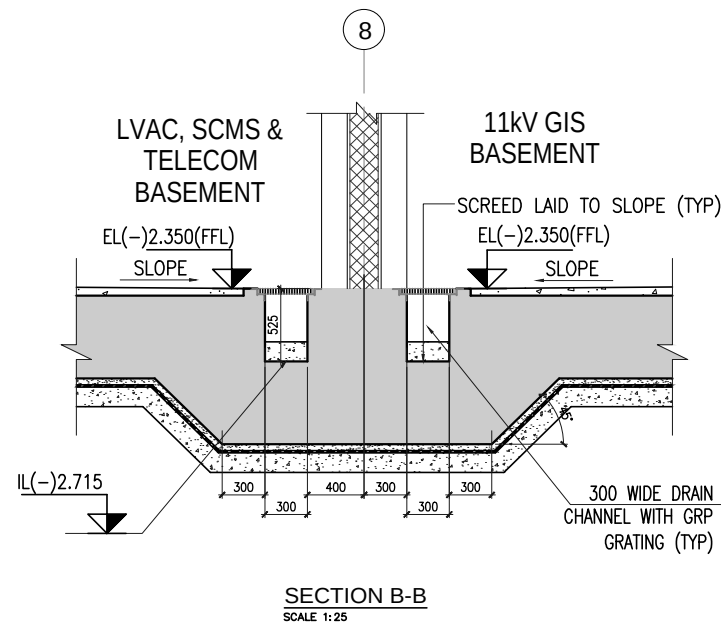
Emirates Water & Electricity
LINDENBERG EMIRATES LTD.
P.O. BOX 4208, ABU DHABI, UNITED ARAB EMIRATES

BY: TIHAD WE CONTRACT- 190E/2021(1)
DISTRIBUTION SUBSTATION WORKS
IN EAST AND WEST AREAS
NEW FUJAIRAH AIRPORT 33/11kV SUBSTATION
SUBSTATION DRAINAGE SETTING OUT PLAN

REVISIONS

NO.	DESCRIPTION	DATE	BY	CHKD	APPD
1	1. 100mm	10.10.2021	MT	RETS	SRK
2	2. 100mm	10.10.2021	MT	RETS	SRK
3	3. 100mm	10.10.2021	MT	RETS	SRK
4	4. 100mm	10.10.2021	MT	RETS	SRK
5	5. 100mm	10.10.2021	MT	RETS	SRK
6	6. 100mm	10.10.2021	MT	RETS	SRK
7	7. 100mm	10.10.2021	MT	RETS	SRK
8	8. 100mm	10.10.2021	MT	RETS	SRK
9	9. 100mm	10.10.2021	MT	RETS	SRK
10	10. 100mm	10.10.2021	MT	RETS	SRK
11	11. 100mm	10.10.2021	MT	RETS	SRK
12	12. 100mm	10.10.2021	MT	RETS	SRK

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ABBREVIATIONS/LEGENDS:

	-240 THICK, SOLID BLOCK WALL (200 THICK BLOCK+20mm THICK PLASTER ON BOTH SIDES)	SSL	- STRUCTURAL SLAB LEVEL
	-FC WALL, COLLARS & STIFFENERS	FFL	- FINISHED FLOOR LEVEL
	- GRATING OVER DRAIN CHANNEL (TYP)	TOC	- TOP OF CONCRETE
	- DRAIN CHANNEL	OMH	- OLIVETREE MANHOLE
	- FIRE ESCAPE ROUTE	LVL	- LEVEL
	- STEEL GRATING FOOT BRIDGE WITH STIFFENERS	TYP	- TYPICAL
	- CONCRETE PLATFORM	BOB	- BOTTOM OF PIPE
	- FIRE HOSE REEL CABINET	ML	- INVERT LEVEL
		TOE	- TOP OF EXCAVATION
		BOB	- BOTTOM OF EXCAVATION
		OLV	- OLIVETREE COLLECTION
		DN	- DOWN
		FHC	- FIRE HOSE REEL CABINET

REFERENCE DRAWINGS:		
REV	DRAWING TITLE	DRAWING ID
1	1002(1) AL/Rev/2001/0001	ORIGINAL EQUIPMENT LIST
1	1002(1) AL/Rev/2001/0002	CABLE ROUTE LAYOUT 3KV & 11KV
0	1002(1) AL/Rev/2002/0010	SUBSTATION BUILDING STANDING OUT PLAN
0	1002(1) AL/Rev/2002/0012	SUBSTATION BUILDING GROUND FLOOR PLAN
0	1002(1) AL/Rev/2002/0013	SUBSTATION BUILDING ROOF PLAN
0	1002(1) AL/Rev/2002/0014	GENERAL ELECTRICAL LAYOUT
0	1002(1) AL/Rev/2002/0014	PLANT ROOMS ELECTRICAL LAYOUT
0	1002(1) AL/Rev/2002/0019	WIRE ELEVATION & SCHEDULE
0	1002(1) AL/Rev/2003/0010	DOOR ELEVATION & SCHEDULE
0	1002(1) AL/Rev/2003/0017	ML ARCHITECTURAL SECTIONS
0	1002(1) AL/Rev/2003/0011	FINISHING SCHEDULE
0	1002(1) AL/Rev/2003/0013	6.1.1.1.1.1 CONSTRUCTION DETAILS
0	1002(1) AL/Rev/2004/0011	PLANT ELEVATION AND SECTIONS OF SUBSTATION ML & EQUIPMENT
0	1002(1) AL/Rev/2005/0010	BOUNDARY WALL ELEVATIONS
0	1002(1) AL/Rev/2005/0011	BOUNDARY WALL ELEVATIONS & SCHEDULE
0	1002(1) AL/Rev/2005/0012	BOUNDARY WALL ELEVATIONS & SCHEDULE
0	1002(1) AL/Rev/2005/0015	GENERAL ELECTRICAL LAYOUT OR DRAWING
0	1002(1) AL/Rev/2005/0016	GENERAL ELECTRICAL LAYOUT OR DRAWING
0	1002(1) AL/Rev/2005/0017	TOLER & BATTERY ROOM DETAILS
0	1002(1) AL/Rev/2005/0015	INTERNAL ROAD LAYOUT & DETAILS
0	1002(1) AL/Rev/2005/0018	STAIRCASE DETAILS

[illegible]

الاتحاد للماء والكهرباء
Etihaad Water & Electricity
Electricity Directorate, P.O.Box: 1072, Dubai

موت مكدونالد
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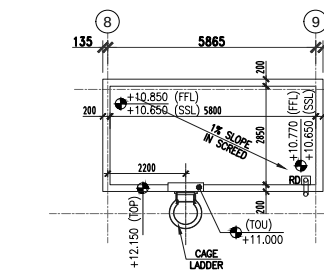
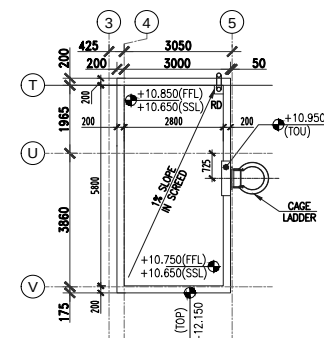
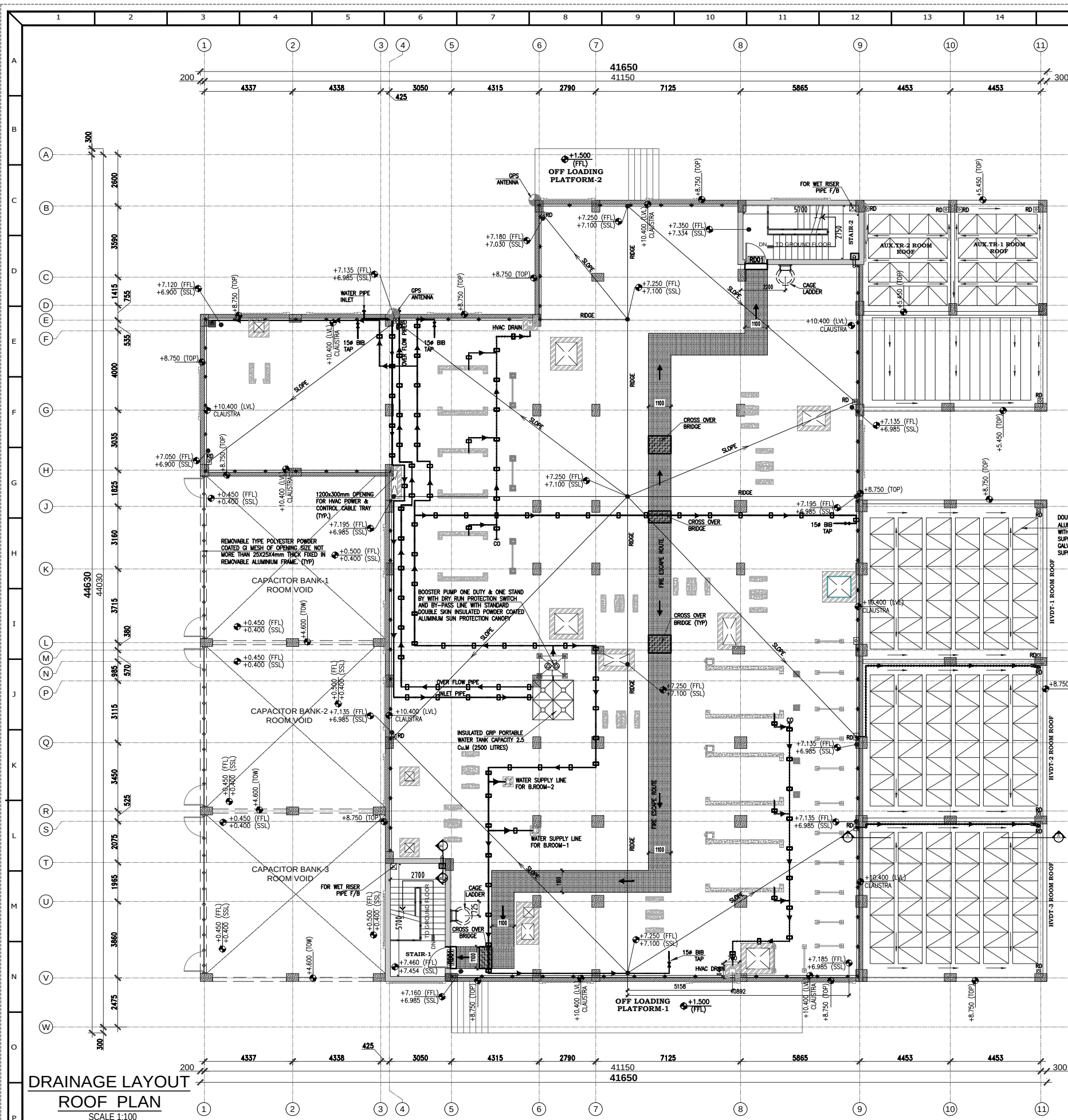
LINDENBERG EMIRATES LTD.
P.O. BOX: 42630, ABU DHABI, UNITED ARAB EMIRATES

PROJECT	ETIHAD WE CONTRACT:- 190E/2021 DISTRIBUTION SUBSTATION WORKS IN EAST AND WEST AREAS
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**NEW FUJAIRAH AIRPORT 33/11kV SUBSTATION
SUBSTATION BUILDING
DRAINAGE LAYOUT - BASEMENT PLAN**

ATTACHED	SRK	DOCUMENT NO.			
CHECKED	RLPA	190E21(1)/LE/FAIR/C05/30402			
DOWN	KS	DATE	SCALE	SIZE	SHEET
CAD REF.	-	06.10.2022	1:25	A1	2 OF 2

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- NOTES:**
- TITLED:**
1. DRAININGS SHALL NOT BE SOALED. FIGURED DIMENSIONS SHALL BE METERS.
 2. ALL DIMENSIONS ARE IN MILLIMETERS (MM) AND LEVELS ARE IN METERS (M).
 3. ALL DIMENSIONS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE PROJECT SPECIFICATION.
 4. FOR SETTING OUT DIMENSIONS REFER IRG NO. 19021(1-10) AND 19021(10-20) OF 2010.
 5. ALL DIMENSIONS TO BE MEASURED AND VERIFIED AT SITE.
 6. ANY DISCREPANCY TO BE REPORTED TO THE CONSULTANT AND RESOLVED IN ACCORDANCE TO THE CONTRACT.
 7. FINISHING ACTIVITY SHALL BE FOLLOWED BY THE STANDARD DIMENSIONS.
 8. ALL DIMENSIONS TO BE CARRIED OUT IN ACCORDANCE WITH THE PROJECT SPECIFICATION.
 9. ALL DIMENSIONS TO BE CARRIED OUT IN ACCORDANCE WITH THE PROJECT SPECIFICATION.
 10. ALL DIMENSIONS TO BE CARRIED OUT IN ACCORDANCE WITH THE PROJECT SPECIFICATION.
 11. ALL DIMENSIONS TO BE CARRIED OUT IN ACCORDANCE WITH THE PROJECT SPECIFICATION.
 12. ALL DIMENSIONS TO BE CARRIED OUT IN ACCORDANCE WITH THE PROJECT SPECIFICATION.
 13. ALL DIMENSIONS TO BE CARRIED OUT IN ACCORDANCE WITH THE PROJECT SPECIFICATION.
 14. ALL DIMENSIONS TO BE CARRIED OUT IN ACCORDANCE WITH THE PROJECT SPECIFICATION.
 15. ALL DIMENSIONS TO BE CARRIED OUT IN ACCORDANCE WITH THE PROJECT SPECIFICATION.
 16. ALL DIMENSIONS TO BE CARRIED OUT IN ACCORDANCE WITH THE PROJECT SPECIFICATION.
 17. ALL DIMENSIONS TO BE CARRIED OUT IN ACCORDANCE WITH THE PROJECT SPECIFICATION.
 18. ALL DIMENSIONS TO BE CARRIED OUT IN ACCORDANCE WITH THE PROJECT SPECIFICATION.
 19. ALL DIMENSIONS TO BE CARRIED OUT IN ACCORDANCE WITH THE PROJECT SPECIFICATION.
 20. ALL DIMENSIONS TO BE CARRIED OUT IN ACCORDANCE WITH THE PROJECT SPECIFICATION.

ABBREVIATIONS/LEGENDS:

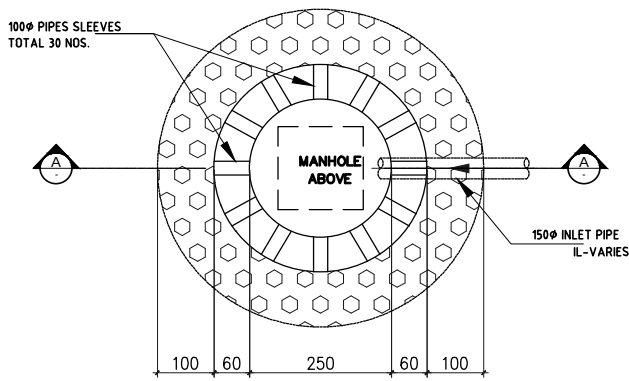
	- 240 THICK SOLID BLOCK WALL (200 THICK SOLID BLOCK+20mm THICK PLASTER ON BOTH SIDES)	SSL	- STRUCTURAL SLAB LEVEL
	- RC WALL, COLUMNS & STEPPERS	FFL	- FINISHED FLOOR LEVEL
	- GRATING OVER DRAIN CHANNEL (TYP)	TDC	- TOP OF CONCRETE
	- DRAIN CHANNEL	OWH	- OLIVATER MANHOLE
	- FIRE ESCAPE ROUTE	LXL	- LEVEL
	- STEEL GRATING FOOT	TYP	- TYPICAL
	- CONCRETE PLATING	LOP	- BOTTOM OF PIPE
	- FIRE HOSE REEL CABINET	IL	- INVERT LEVEL
	- FIRE HOSE REEL CABINET	TOE	- TOP OF ENCASEMENT
	- FIRE HOSE REEL CABINET	ROE	- BOTTOM OF ENCASEMENT
	- FIRE HOSE REEL CABINET	OLV	- OLIVATER COLLECTION AND
	- FIRE HOSE REEL CABINET	DN	- DOWN
	- FIRE HOSE REEL CABINET	FHC	- FIRE HOSE REEL CABINET

REFERENCE DRAWINGS:				
REV	DRAWING TITLE	DRAWING ID	STATUS	CODE
1	THESE(1)/A/PM/06/00001	GENERAL EQUIPMENT LAYOUT		
2	THESE(1)/A/PM/06/00002	CABLE ROUTE LAYOUT AND 110V		
3	THESE(1)/A/PM/06/00010	SUBSTATION BUILDING SETTING OVER FLOOR		
4	THESE(1)/A/PM/06/00012	SUBSTATION BUILDING SECOND FLOOR PLAN		
5	THESE(1)/A/PM/06/00013	SUBSTATION BUILDING ROOF PLAN		
6	THESE(1)/A/PM/06/00014	APERTURE BUILDING SHEET		
7	THESE(1)/A/PM/06/00015	APERTURE BUILDING ELEVATIONS		
8	THESE(1)/A/PM/06/00016	DOOR ELEVATION & SCHEDULE		
9	THESE(1)/A/PM/06/00017	WALL ARCHITECTURAL SECTIONS		
10	THESE(1)/A/PM/06/00011	FINDINGS SCHEDULE		
11	THESE(1)/A/PM/06/00013	GLASS BLOCK WINDOW CONSTRUCTION DETAILS		
12	THESE(1)/A/PM/06/00014	PLUMBING SCHEDULE AND SECTIONS OF		
13	THESE(1)/A/PM/06/00018	MECHANICAL SCHEDULE AND SECTIONS		
14	THESE(1)/A/PM/06/00019	ELECTRICAL SCHEDULE AND SECTIONS		
15	THESE(1)/A/PM/06/00022	FOUNDATION SCHEDULE & ELEVATIONS		
16	THESE(1)/A/PM/06/00083	FOUNDATION WALL & ELEVATIONS		
17	THESE(1)/A/PM/06/00083	FOUNDATION WALL FROM FOUNDATION GR DRAINING		
18	THESE(1)/A/PM/06/00045	USE OF WATER COLLECTION TANK		
19	THESE(1)/A/PM/06/00012	TOLER & BATTERY ROOM DETAILS		
20	THESE(1)/A/PM/06/00025	INLET, ROOM LAYOUT & DETAILS		
21	THESE(1)/A/PM/06/00018	SHOWER DETAILS		

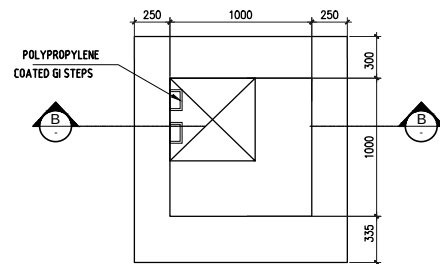
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REV	DESCRIPTION	DATE	CASH	CHRD.	APPD.	STAT.
CLIENT:						
الاتحاد للماء والكهرباء						
Etihad Water & Electricity						
Electricity Directorate, P.O.Box:1072, Dubai						
CONTACT:				Mott MacDonald PO Box 11302 Dubai United Arab Emirates T +971 (04) 206 9111 F +971 (04) 232 8050 W www.mottmac.com		

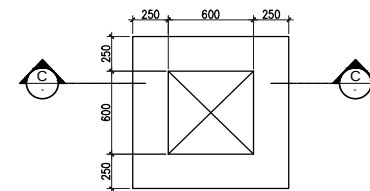
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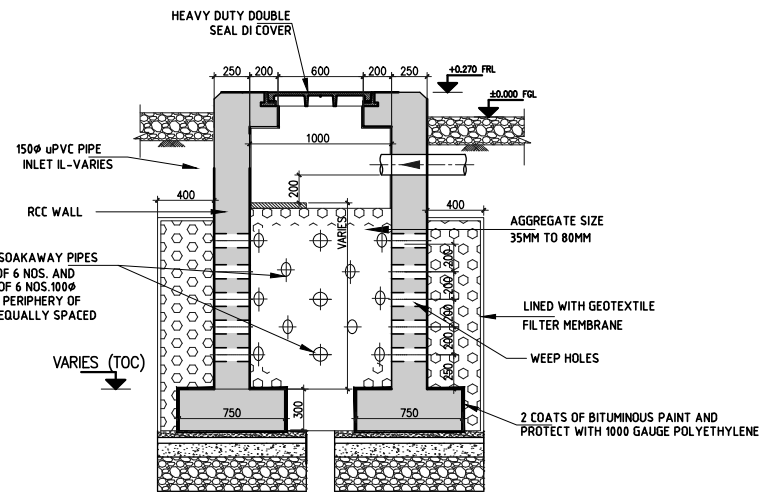
TYP SOAKAWAY (1000Ø)
SCALE 1:25



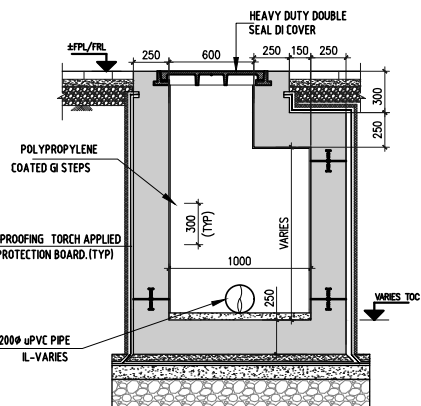
PLAN - MANHOLE (1000x1000)
(BMH)
SCALE 1:25



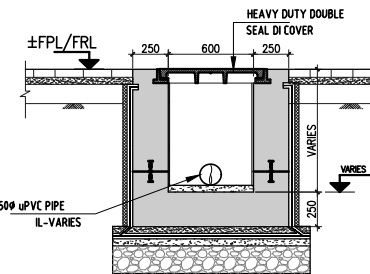
PLAN - MANHOLE (MH)
600x600
SCALE 1:25



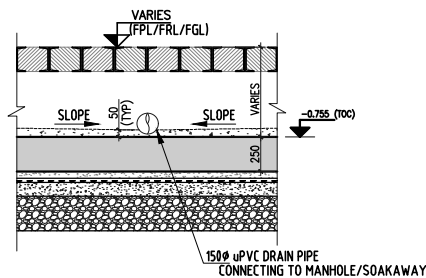
SECTION A-A
SCALE 1:25



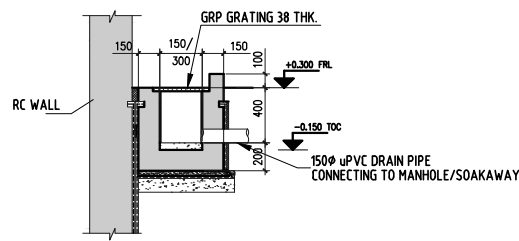
SECTION B-B
SCALE 1:25



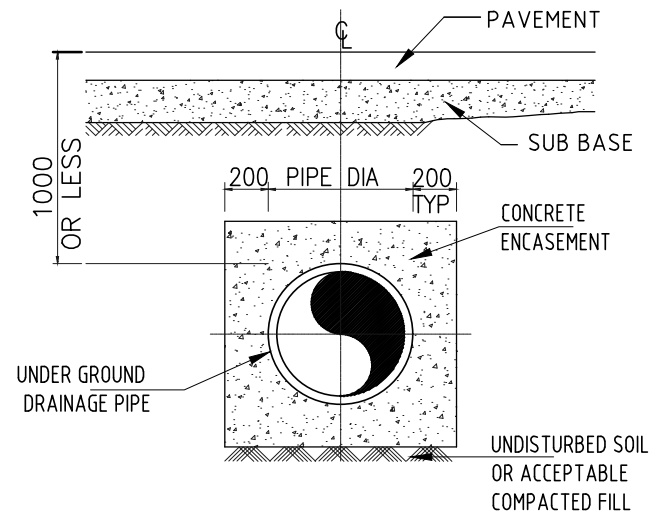
SECTION C-C
SCALE 1:25



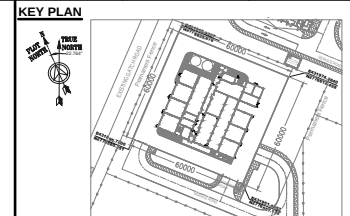
TYPICAL SECTION AT DRAIN
PIPES IN FIRE TRENCH.
SCALE 1:25



TYPICAL SECTION AT
MANIFOLD DRAIN PIT
SCALE 1:25



CONC. ENCASEMENT FOR PIPE
CROSSING UNDER ROAD
PAVEMENT - DETAIL
(APPLICABLE TO ALL EXTERNAL PIPES)
SCALE: NTS



- NOTES:
- FIGURED DIMENSIONS ARE FOLLOWED.
 - ALL DIMENSIONS ARE IN MILLIMETERS (mm) AND LEVELS ARE IN METERS (m)
 - ALL WORKS ARE CARRIED OUT IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS
 - ALL DISCREPANCIES ARE REPORTED TO THE CONSULTANT AND RESOLVED PRIOR TO THE COMMENCEMENT OF WORKS.
 - ALL DRAINAGE DRAWINGS ARE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL / STRUCTURAL DRAWINGS.
 - GROUND WATER TABLE ENCOUNTERED AT 10 TO 10.50 M DEPTH.

ABBREVIATIONS/LEGENDS:

240 THK. SOLID BLOCK WALL (200 Ø)	SBL	STRUCTURAL SLAB LEVEL
200 Ø SOLID BLOCK+20mm THK. PLASTER ON EACH SIDE	FRL	FINISHED FLOOR LEVEL
RC WALL, COLUMNS & STIFFENERS	TOC	TOP OF CONCRETE
GRATING OVER DRAIN CHANNEL (TYP)	DMH	DIAMETER MANHOLE
DRAIN CHANNEL	LAL	LEVEL
TYP	TYP	TYPICAL
ROP	ROP	BOTTOM OF PIPE
E	E	INSET LEVEL
TDE	TDE	TOP OF ENCASMENT
ROE	ROE	BOTTOM OF ENCASMENT
Q/W	Q/W	QUARTER COLLECTION AREA
DN	DN	DOWN
FHC	FHC	FIRE HOSE REEL CABINET

REFERENCE DRAWINGS:

REV	DRAWING TITLE	DRAWING ID	STATUS
1	190E21(1)/LE/FAIR/CO5/0001	OVERALL EQUIPMENT LAYOUT	CODE-2
0	190E21(1)/LE/FAIR/CO5/13005	CABLE ROUTE LAYOUT 33KV & 11KV	--
0	190E21(1)/LE/FAIR/CO5/20100	SUBSTATION BUILDING SETTING OUT PLAN	--
0	190E21(1)/LE/FAIR/CO5/30102	SUBSTATION BUILDING GROUND FLOOR PLAN	--
0	190E21(1)/LE/FAIR/CO5/30103	SUBSTATION BUILDING ROOF PLAN	--
0	190E21(1)/LE/FAIR/CO5/30104	SUBSTATION BUILDING ELEVATIONS	--
0	190E21(1)/LE/FAIR/CO5/30105	SUBSTATION BUILDING ELEVATIONS	--
0	190E21(1)/LE/FAIR/CO5/30106	DOOR ELEVATION & SCHEDULE	--
0	190E21(1)/LE/FAIR/CO5/30107	WINDOW ELEVATION & SCHEDULE	--
0	190E21(1)/LE/FAIR/CO5/30108	WALL ARCHITECTURAL SECTIONS	--
0	190E21(1)/LE/FAIR/CO5/30109	FINISHING SCHEDULE	--
0	190E21(1)/LE/FAIR/CO5/30110	GLASS BLOCK WINDOW CONSTRUCTION DETAILS	--
0	190E21(1)/LE/FAIR/CO5/30111	PLAN, ELEVATION AND SECTIONS OF	--
0	190E21(1)/LE/FAIR/CO5/30112	BOUNDARY WALL & TOWER	--
0	190E21(1)/LE/FAIR/CO5/30113	BOUNDARY WALL ELEVATIONS	--
0	190E21(1)/LE/FAIR/CO5/30114	BOUNDARY WALL & TOWER	--
0	190E21(1)/LE/FAIR/CO5/30115	BOUNDARY WALL ELEVATIONS	--
0	190E21(1)/LE/FAIR/CO5/30116	BOUNDARY WALL & TOWER	--
0	190E21(1)/LE/FAIR/CO5/30117	BOUNDARY WALL ELEVATIONS	--
0	190E21(1)/LE/FAIR/CO5/30118	BOUNDARY WALL & TOWER	--
0	190E21(1)/LE/FAIR/CO5/30119	BOUNDARY WALL ELEVATIONS	--
0	190E21(1)/LE/FAIR/CO5/30120	BOUNDARY WALL & TOWER	--
0	190E21(1)/LE/FAIR/CO5/30121	BOUNDARY WALL ELEVATIONS	--
0	190E21(1)/LE/FAIR/CO5/30122	BOUNDARY WALL & TOWER	--
0	190E21(1)/LE/FAIR/CO5/30123	BOUNDARY WALL ELEVATIONS	--
0	190E21(1)/LE/FAIR/CO5/30124	BOUNDARY WALL & TOWER	--
0	190E21(1)/LE/FAIR/CO5/30125	BOUNDARY WALL ELEVATIONS	--
0	190E21(1)/LE/FAIR/CO5/30126	BOUNDARY WALL & TOWER	--
0	190E21(1)/LE/FAIR/CO5/30127	BOUNDARY WALL ELEVATIONS	--
0	190E21(1)/LE/FAIR/CO5/30128	BOUNDARY WALL & TOWER	--
0	190E21(1)/LE/FAIR/CO5/30129	BOUNDARY WALL ELEVATIONS	--
0	190E21(1)/LE/FAIR/CO5/30130	BOUNDARY WALL & TOWER	--

STAMPS

REV	DESCRIPTION	DATE	CADD CHNG.	APPL.	STATUS
1	190E21(1)/LE/FAIR/CO5/0001	19/08/2021	1	1	1
0	190E21(1)/LE/FAIR/CO5/13005	19/08/2021	1	1	1
0	190E21(1)/LE/FAIR/CO5/20100	19/08/2021	1	1	1
0	190E21(1)/LE/FAIR/CO5/30102	19/08/2021	1	1	1
0	190E21(1)/LE/FAIR/CO5/30103	19/08/2021	1	1	1
0	190E21(1)/LE/FAIR/CO5/30104	19/08/2021	1	1	1
0	190E21(1)/LE/FAIR/CO5/30105	19/08/2021	1	1	1
0	190E21(1)/LE/FAIR/CO5/30106	19/08/2021	1	1	1
0	190E21(1)/LE/FAIR/CO5/30107	19/08/2021	1	1	1
0	190E21(1)/LE/FAIR/CO5/30108	19/08/2021	1	1	1
0	190E21(1)/LE/FAIR/CO5/30109	19/08/2021	1	1	1
0	190E21(1)/LE/FAIR/CO5/30110	19/08/2021	1	1	1
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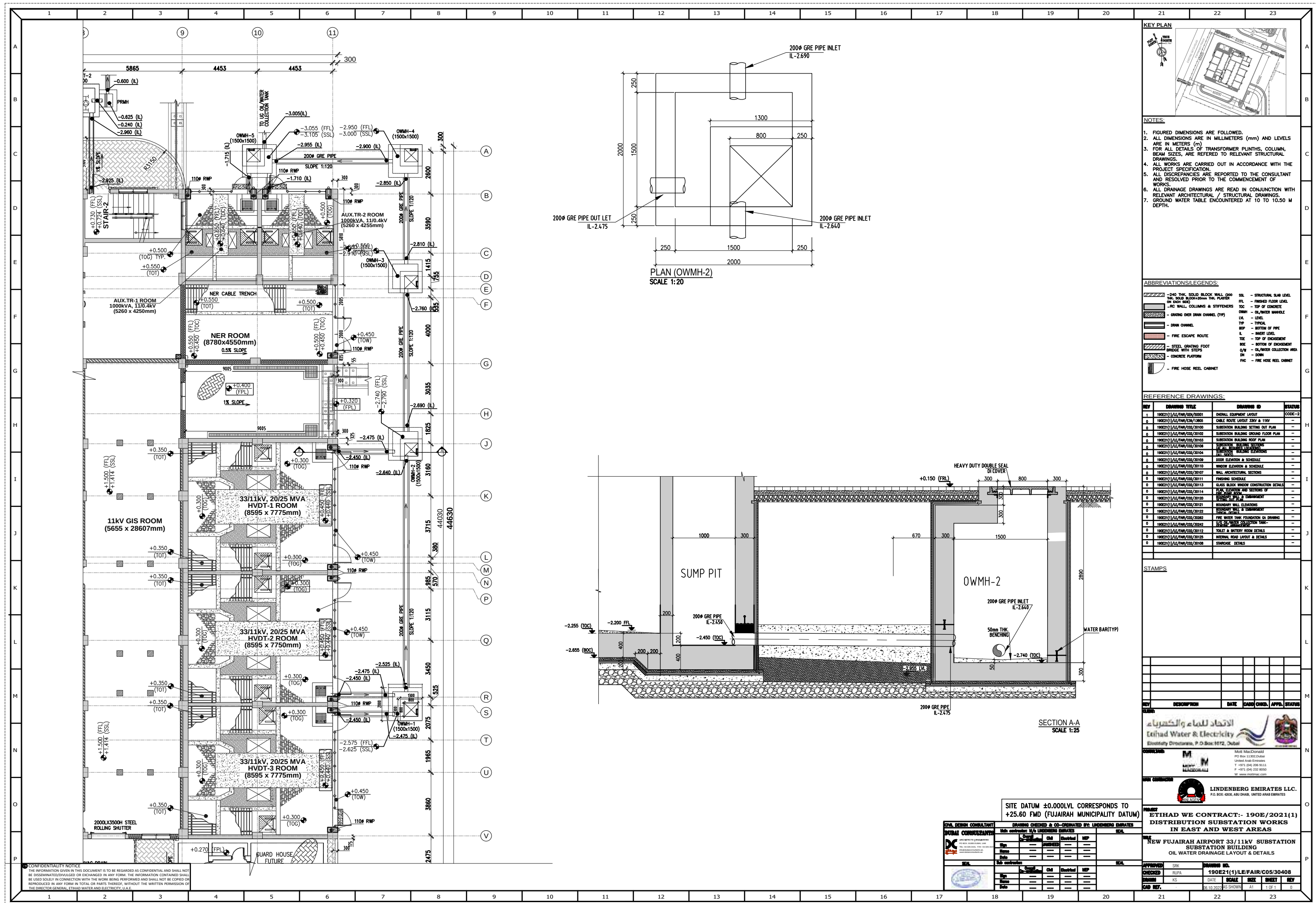
LINDENBERG EMIRATES LLC.
P.O. BOX: 4263, ABU DHABI, UNITED ARAB EMIRATES

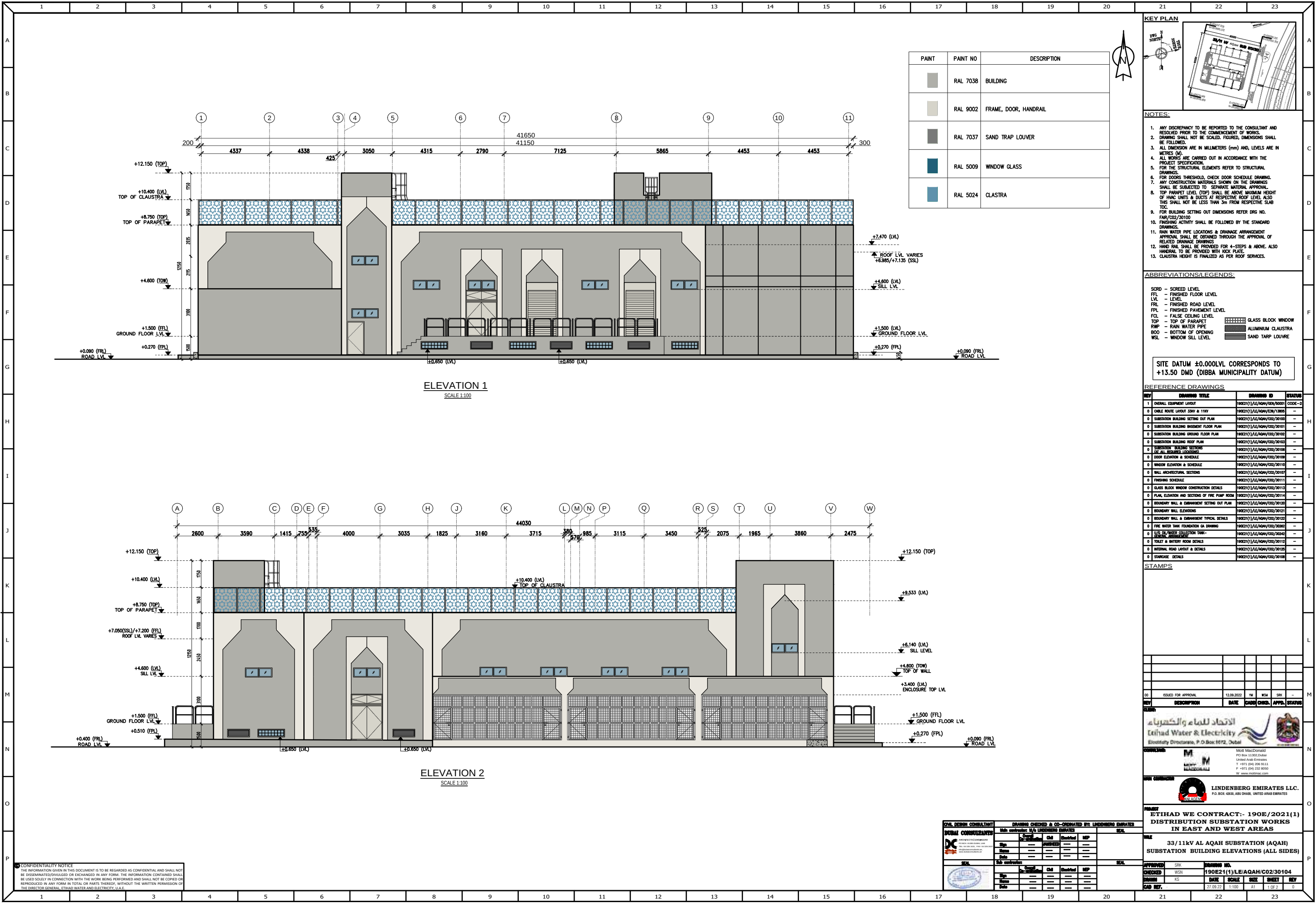
ETIHAD WE CONTRACT:- 190E/2021(1)
DISTRIBUTION SUBSTATION WORKS
IN EAST AND WEST AREAS

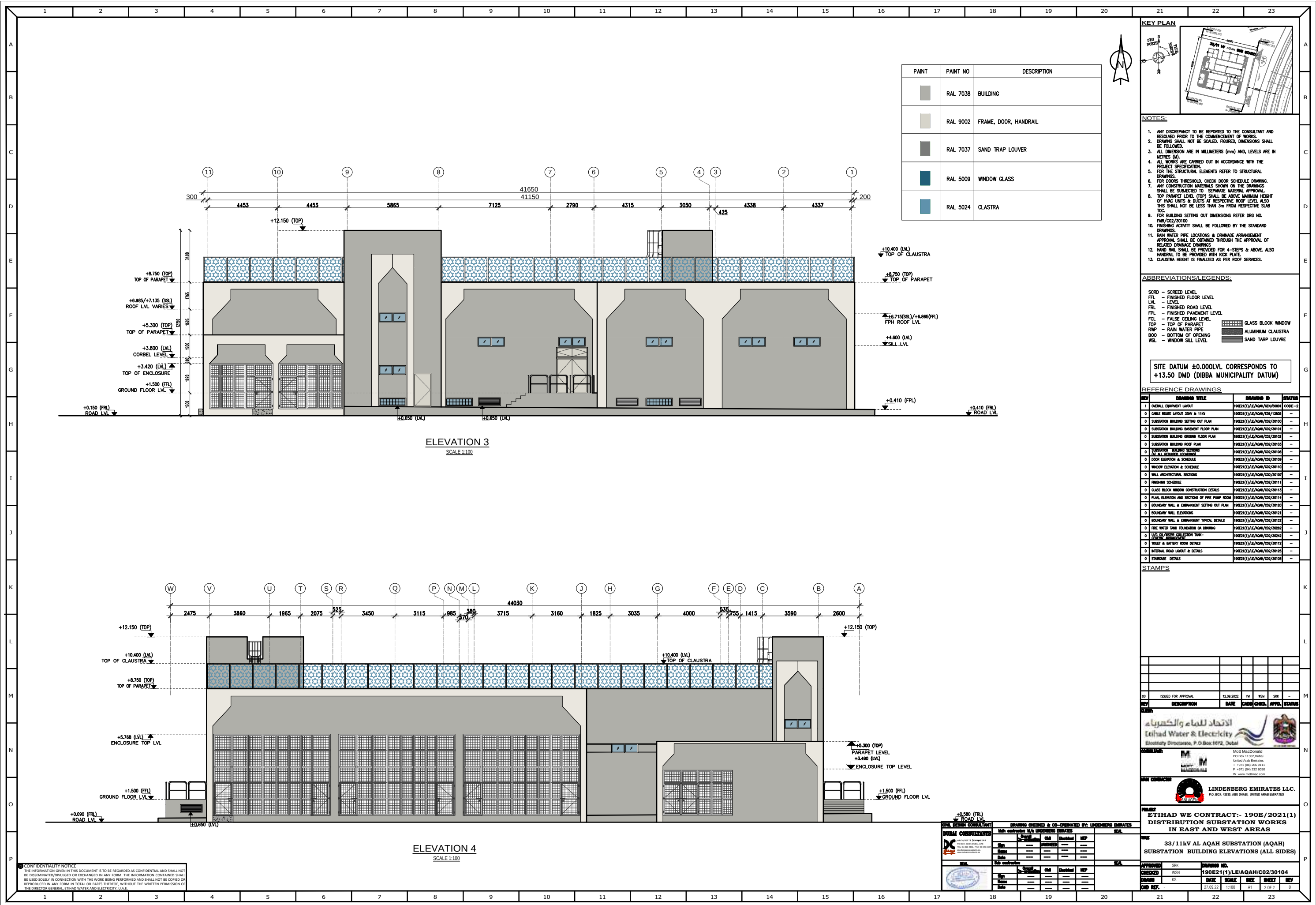
NEW FUJAIRAH AIRPORT 33/11KV SUBSTATION
DRAINAGE LAYOUT - SECTIONS

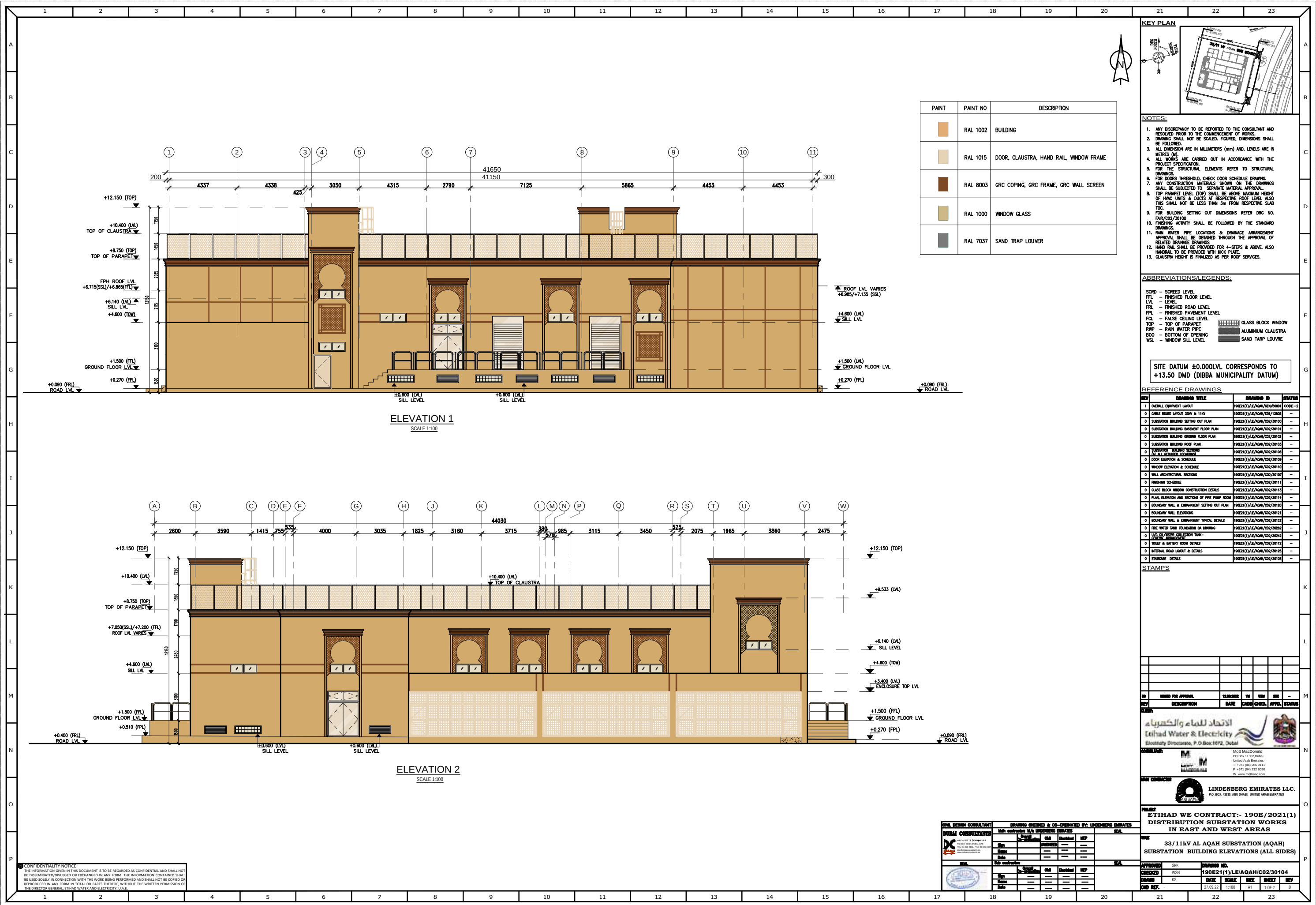
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CHECKED	SRK	190E21(1)/LE/FAIR/CO5/30405
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SCALE	SCALE	SCALE
SIZE	SIZE	SIZE
SHEET	SHEET	SHEET
REV	REV	REV

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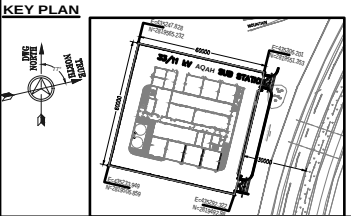








PAINT	PAINT NO	DESCRIPTION
	RAL 1002	BUILDING
	RAL 1015	DOOR, CLAUSTRA, HAND RAIL, WINDOW FRAME
	RAL 8003	GRC COPING, GRC FRAME, GRC WALL SCREEN
	RAL 1000	WINDOW GLASS
	RAL 7037	SAND TRAP LOUVER



- NOTES:
1. ANY DISCREPANCY TO BE REPORTED TO THE CONSULTANT AND RESOLVED PRIOR TO THE COMMENCEMENT OF WORKS.
 2. DRAWING SHALL NOT BE SCALED, FIGURED, DIMENSIONS SHALL BE FOLLOWED.
 3. ALL DIMENSION ARE IN MILLIMETERS (mm) AND, LEVELS ARE IN METRES (M).
 4. ALL WORKS ARE CARRIED OUT IN ACCORDANCE WITH THE PROJECT SPECIFICATION.
 5. FOR THE STRUCTURAL ELEMENTS REFER TO STRUCTURAL DRAWINGS.
 6. FOR DOORS THRESHOLD, CHECK DOOR SCHEDULE DRAWING.
 7. ANY CONSTRUCTION MATERIALS SHOWN ON THE DRAWINGS SHALL BE SUBJECTED TO SEPARATE MATERIAL APPROVAL.
 8. TOP PARAPET LEVEL (TOP) SHALL BE ABOVE MAXIMUM HEIGHT OF HVAC UNITS & DUCTS AT RESPECTIVE ROOF LEVEL ALSO THIS SHALL NOT BE LESS THAN 3m FROM RESPECTIVE SLAB TOP.
 9. FOR BUILDING SETTING OUT DIMENSIONS REFER DRG NO. FAIR/CO2/30100
 10. FINISHING ACTIVITY SHALL BE FOLLOWED BY THE STANDARD DRAWINGS.
 11. RAIN WATER PIPE LOCATIONS & DRAINAGE ARRANGEMENT APPROVAL SHALL BE OBTAINED THROUGH THE APPROVAL OF RELATED DRAINAGE DRAWINGS.
 12. HAND RAIL SHALL BE PROVIDED FOR 4-STEPS & ABOVE. ALSO HANDRAIL TO BE PROVIDED WITH KICK PLATE.
 13. CLAUSTRA HEIGHT IS FINALED AS PER ROOF SERVICES.

ABBREVIATIONS/LEGENDS:

SORD	-	SCORED LEVEL		GLASS BLOCK WINDOW
FFL	-	FINISHED FLOOR LEVEL		ALUMINIUM CLAUSTRA
LVL	-	LEVEL		SAND TARP LOUVER
FRL	-	FINISHED ROAD LEVEL		
FPL	-	FINISHED PAVEMENT LEVEL		
FCL	-	FALSE CEILING LEVEL		
TOP	-	TOP OF PARAPET		
RWP	-	RAIN WATER PIPE		
BOO	-	BOTTOM OF OPENING		
WSL	-	WINDOW SILL LEVEL		

SITE DATUM ± 0.000 LVL CORRESPONDS TO $+13.50$ DMD (DIBBA MUNICIPALITY DATUM)

REFERENCE DRAWINGS

REV	DRAWING TITLE	DRAWING NO	STATUS
1	OVERALL EQUIPMENT LAYOUT	190E21(1)/AE/AQAH/SEN/30001	CODE-2
0	CABLE ROUTE LAYOUT 33KV & 11KV	190E21(1)/AE/AQAH/SEN/13803	-
0	SUBSTATION BUILDING SETTING OUT PLAN	190E21(1)/AE/AQAH/CO2/30100	-
0	SUBSTATION BUILDING BASEMENT FLOOR PLAN	190E21(1)/AE/AQAH/CO2/30101	-
0	SUBSTATION BUILDING GROUND FLOOR PLAN	190E21(1)/AE/AQAH/CO2/30102	-
0	SUBSTATION BUILDING ROOF PLAN	190E21(1)/AE/AQAH/CO2/30103	-
0	SUBSTATION BUILDING SECTIONS	190E21(1)/AE/AQAH/CO2/30104	-
0	DOOR ELEVATION & SCHEDULE	190E21(1)/AE/AQAH/CO2/30109	-
0	WINDOW ELEVATION & SCHEDULE	190E21(1)/AE/AQAH/CO2/30110	-
0	WALL ARCHITECTURAL SECTIONS	190E21(1)/AE/AQAH/CO2/30107	-
0	FINISHING SCHEDULE	190E21(1)/AE/AQAH/CO2/30111	-
0	GLASS BLOCK WINDOW CONSTRUCTION DETAILS	190E21(1)/AE/AQAH/CO2/30113	-
0	PLAN ELEVATION AND SECTIONS OF FIRE PUMP ROOM	190E21(1)/AE/AQAH/CO2/30114	-
0	BOUNDARY WALL & EMBANKMENT SETTING OUT PLAN	190E21(1)/AE/AQAH/CO2/30120	-
0	BOUNDARY WALL ELEVATIONS	190E21(1)/AE/AQAH/CO2/30121	-
0	BOUNDARY WALL & EMBANKMENT TYPICAL DETAILS	190E21(1)/AE/AQAH/CO2/30122	-
0	FIRE WATER TANK FOUNDATION ON DRAWING	190E21(1)/AE/AQAH/CO2/30205	-
0	U/S OF WATER COLLECTION TANK- TANKS	190E21(1)/AE/AQAH/CO2/30240	-
0	TREAT & BATTERY ROOM DETAILS	190E21(1)/AE/AQAH/CO2/30115	-
0	INTERNAL ROAD LAYOUT & DETAILS	190E21(1)/AE/AQAH/CO2/30125	-
0	STAIRCASE DETAILS	190E21(1)/AE/AQAH/CO2/30108	-

STAMPS

REV	DESCRIPTION	DATE	CADD	CHD	APPL	STATUS
00	ISSUED FOR APPROVAL	10.08.2022	MM	MM	MM	-

CLIENT: الاتحاد لليماء والكهرباء
Etihad Water & Electricity
Electricity Directorate, P.O. Box 1072, Dubai

CONSULTANT: Mott MacDonald
PO Box 11302, Dubai
United Arab Emirates
T: +971 (04) 206 9111
F: +971 (04) 202 8000
W: www.mottmac.com

MAIN CONTRACTOR: LINDENBERG EMIRATES LLC.
P.O. BOX: 42630, ABU DHABI, UNITED ARAB EMIRATES

PROJECT: ETIHAD WE CONTRACT:- 190E/2021(1)
DISTRIBUTION SUBSTATION WORKS
IN EAST AND WEST AREAS

FILE: 33/11KV AL AQAH SUBSTATION (AQAH)
SUBSTATION BUILDING ELEVATIONS (ALL SIDES)

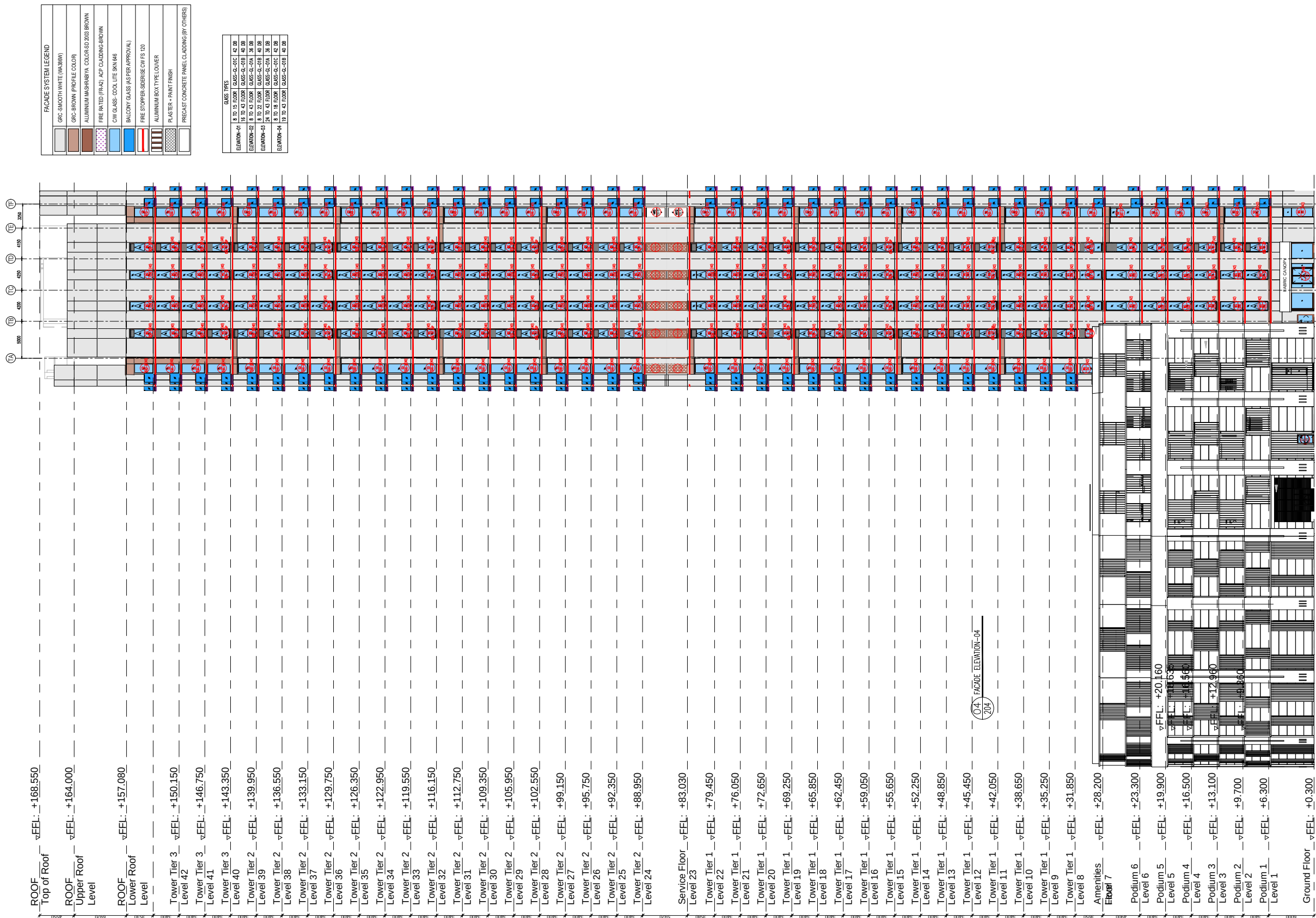
CIVIL DESIGN CONSULTANT DUBAI CONSULTANTS P.O. Box 11302, Dubai T: +971 (04) 206 9111 F: +971 (04) 202 8000 W: www.dubiconsultants.com	DRAWING CHECKED & CO-ORDINATED BY: LINDENBERG EMIRATES				
	Sub contractor: N/A LINDENBERG EMIRATES				SEAL
	Checked	CHD	Checked	MM	
	Sign	_____	_____	_____	_____
SEAL	Checked	CHD	Checked	MM	
	Sign	_____	_____	_____	_____
	Date	_____	_____	_____	_____
	Sub contractor	_____	_____	_____	_____

APPROVED	SRK	DRAWING NO.
CHECKED	WSN	190E21(1)/LE/AQAH/CO2/30104
DRAWN	KS	DATE SCALE SIZE SHEET REV
CAD REF.	27.09.22	1:100 A1 1 OF 2 0

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PROJECT 1: BURJ CROWN



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3. ALL CUTOUTS TO BE COORDINATED WITH SHOP DRAWINGS.

1. GLASS 36 DB (GL01A) - 6mm THK. COOL LITE SKN 646
8+16MM THK AIR SPACER + 8mm THK. CLEAR GLASS
2. GLASS 40 DB (GL01B) - 6mm THK. COOL LITE SKN 646
18MM THK AIR SPACER + 12mm THK. CLEAR GLASS
3. GLASS 42 DB (GL-01C) - 6mm THK. COOL LITE SKN 646
+16MM THK AIR SPACER + 13.52mm THK. CLEAR GLASS

REVISIONS / ISSUE

DC

مهندسين • مهندسون • معمارين
Dubai
طريق
P.O. Box 81805
Tel : 3262431 Fax : 3262437
E-Mail : info@dubaiconsultants.ae

DUBAI CONSULTANTS

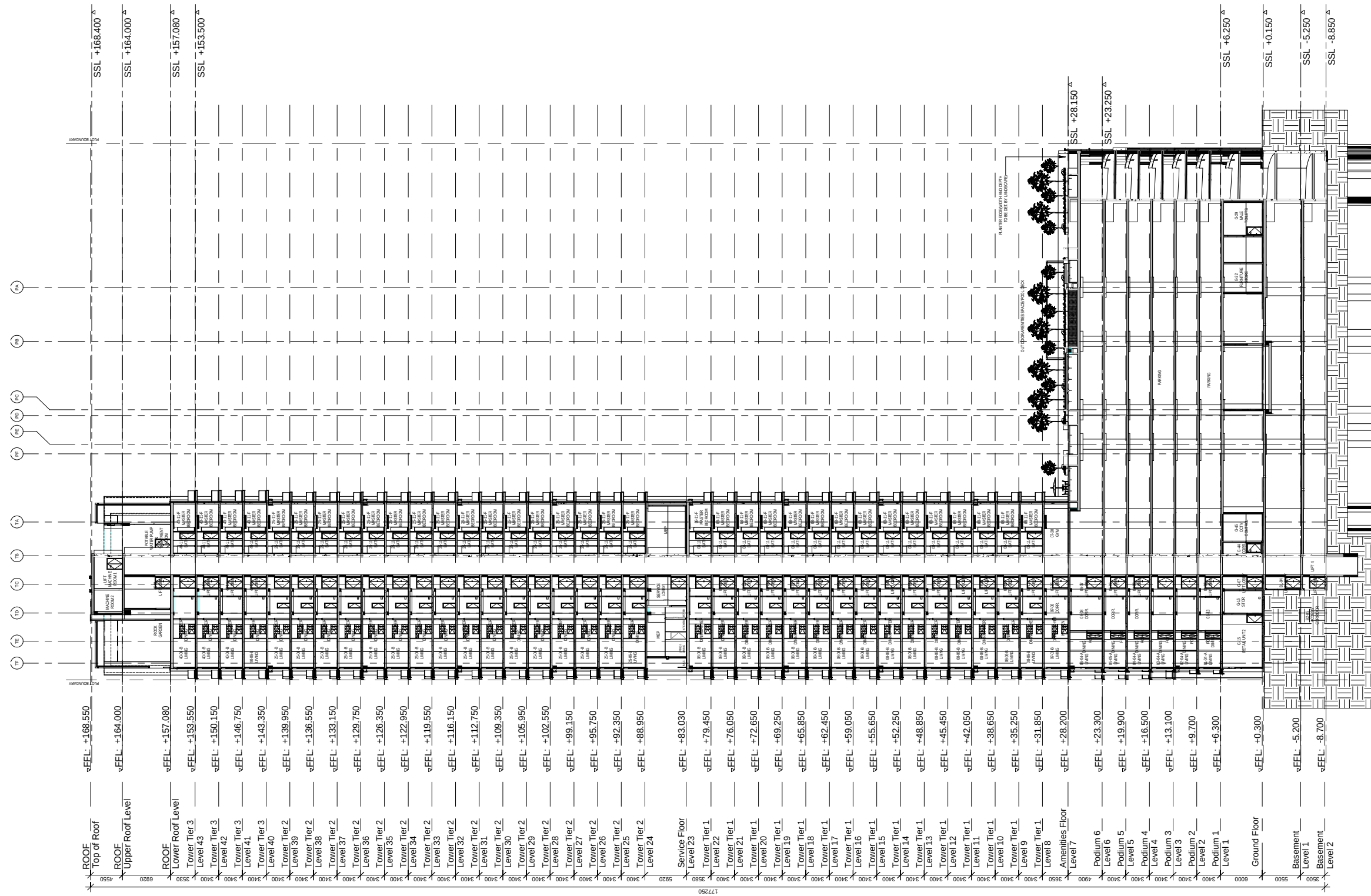
Project Title: _____

PROPOSED 2 NOS. OF 3BHK UNITS
ON LEVEL-23 IN DOWNTOWN PLOT 27
RESIDENTIAL BUILDING

Drawing Status: **DETAIL DESIGN**

Drawing Title: ELEVATION 4	
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Scale(s)	Date 03-10-2022	Job no: 2102-RS-ABM	
Drawn IP	Checked RR	Drawing no:	Re
Lead File Ref:	Approved	P0009-DXB-AR-GE-204	C



SECTION AA
SCALE 1 : 300

Rev No.	Issue Date	Description

REVISIONS / ISSUE

Client / Owner

vermeer-logo.jpg

Architects



Architects • Engineers • Design Consultants
P.O. Box 81385 Dubai, U.A.E.
Tel : 3262431 Fax : 3262437
E-Mail : info@buburconsultants.ae

Project Title:

PROPOSED 2 NOS. OF 3BHK UNITS
ON LEVEL-23 IN DOWNTOWN PLOT 2
RESIDENTIAL BUILDING

Drawing Status: **DETAIL DESIGN**

Drawing Title:

SECTION A-A

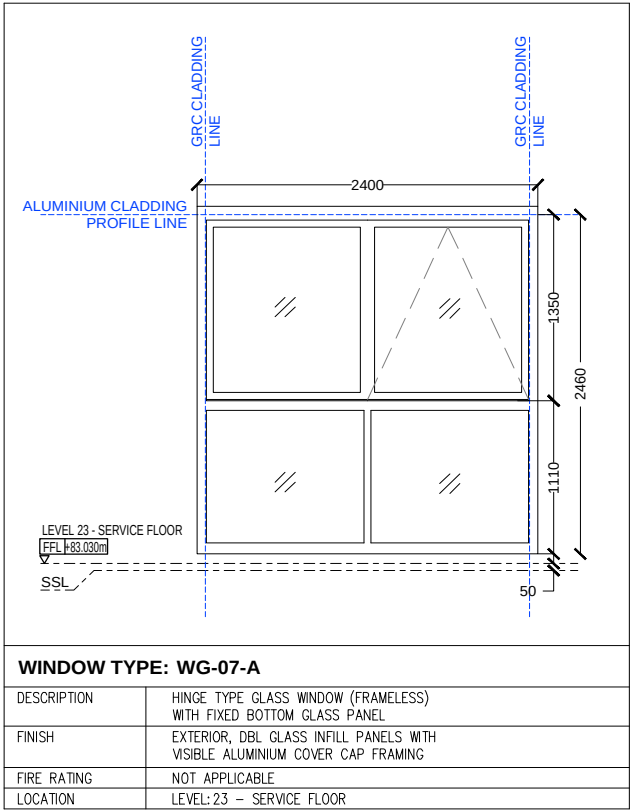
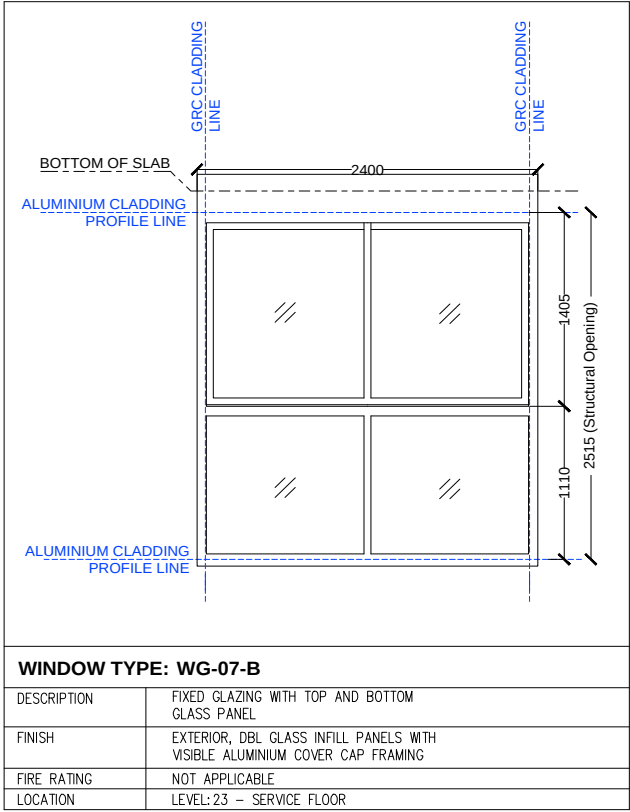
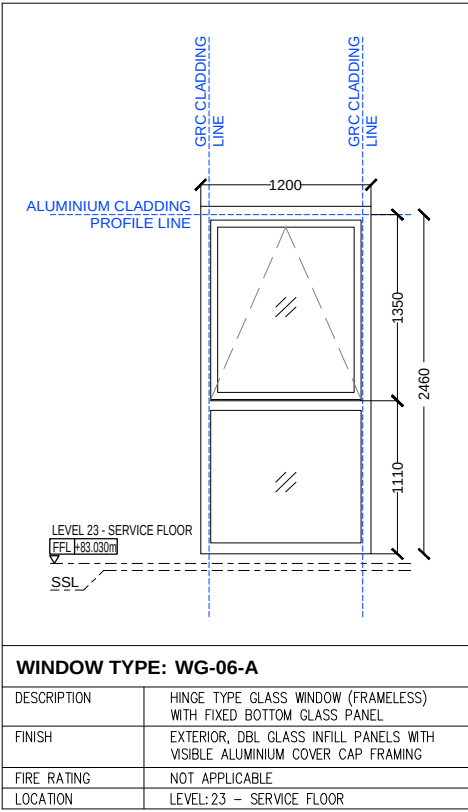
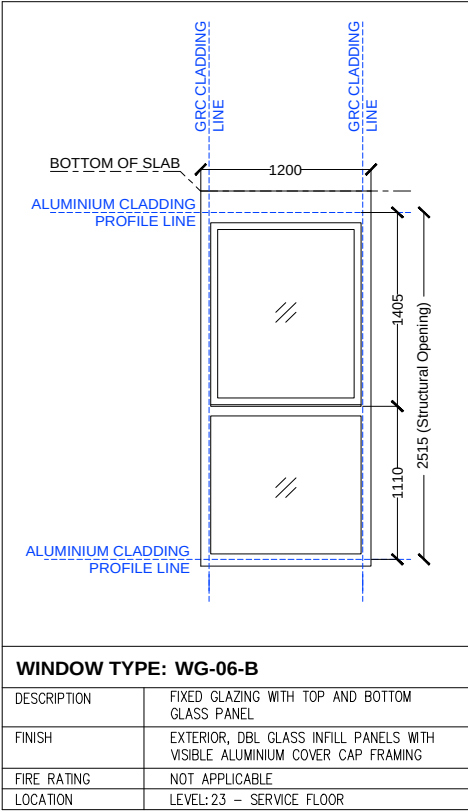
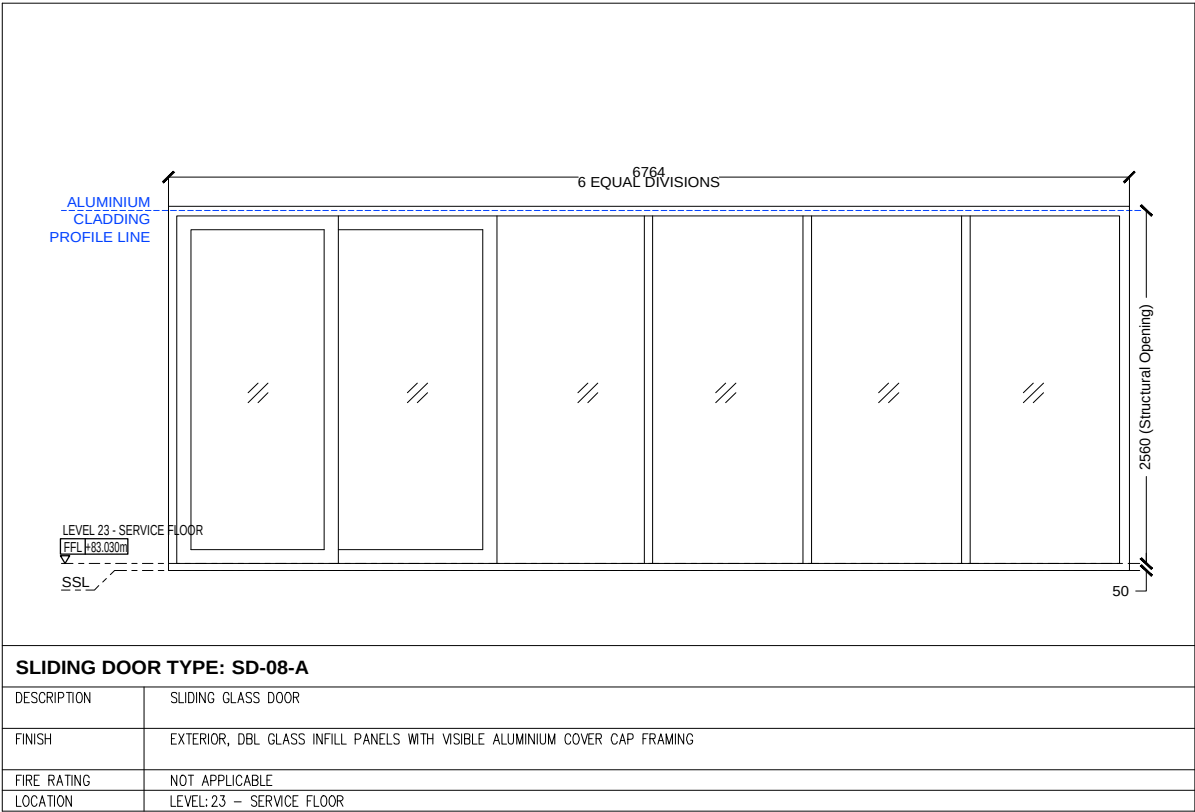
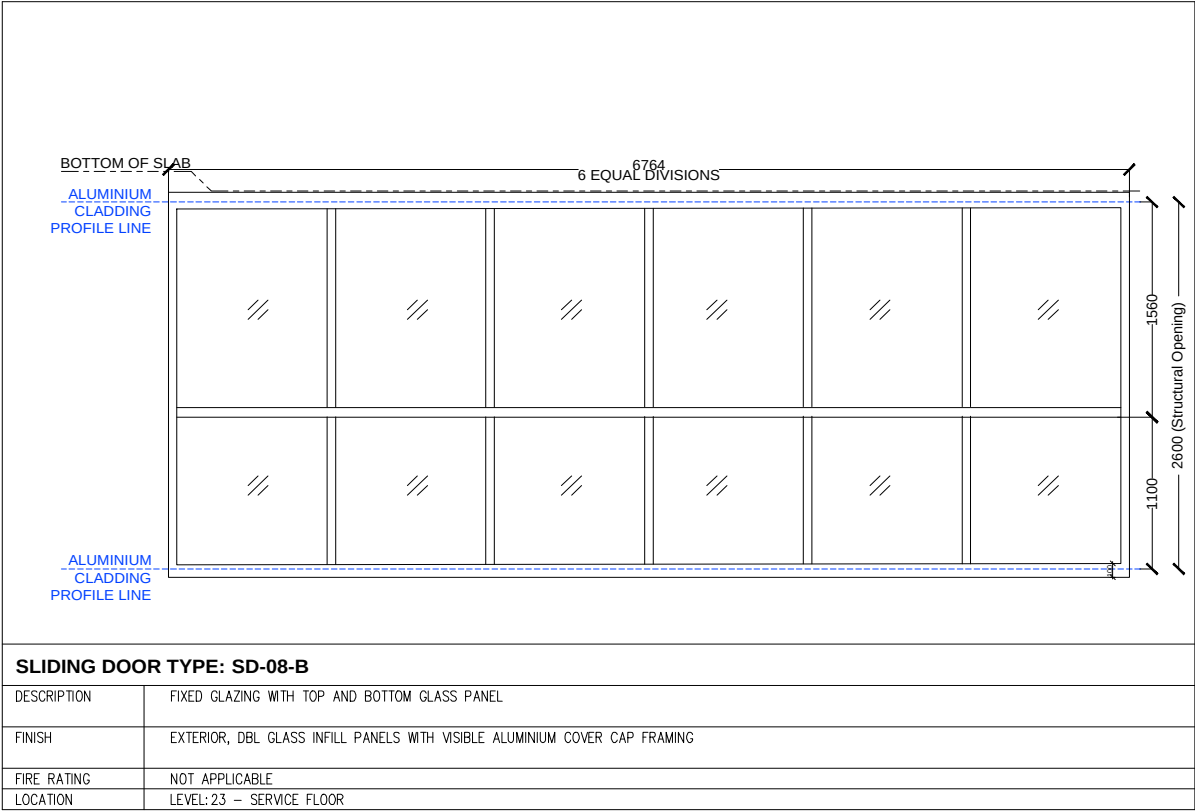
Scale(s)	Date	Job no:
		3102 PG ADA

	03-10-2022	Z102-R3-ABM
Drawn	Checked	Drawing no:

MP	RR
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Cad File Ref:	Approved	P0009-DXB-AR-GE-3
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Rev No.	Issue Date	Description

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Client / Owner

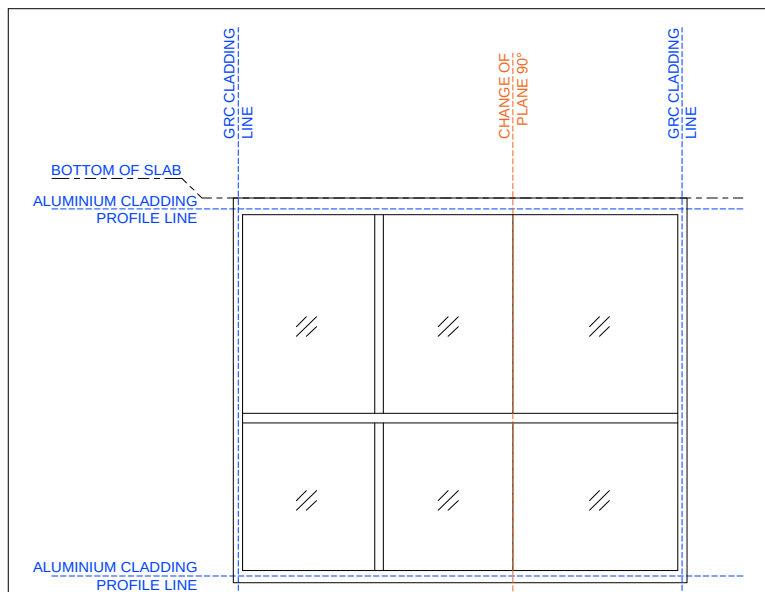

Architects

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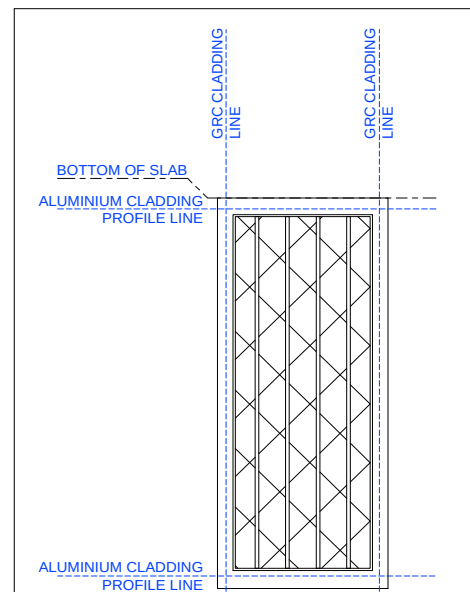
Project Title:
PROPOSED 2 NOS. OF 3BHK UNITS
ON LEVEL-23 IN DOWNTOWN PLOT 27
RESIDENTIAL BUILDING

Drawing Status: **DETAIL DESIGN**
Drawing Title:
OPENINGS SCHEDULE
GLAZING & EXTERNAL SCREEN
SCHEDULE (SHEET 01 OF 02)

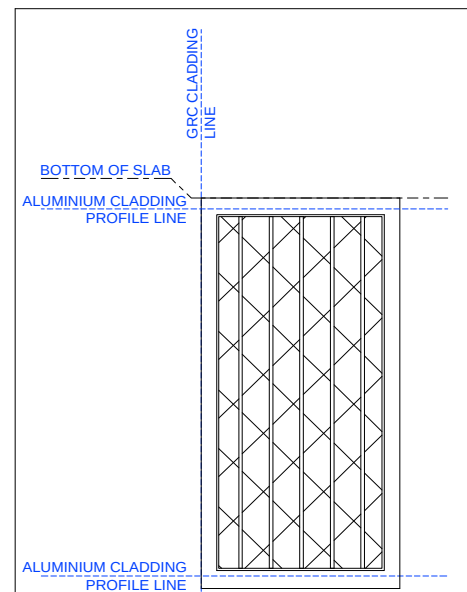
Scale(s)	Date 03-10-2022	Job no: 2102-RS-ABM	Rev.
Drawn MP	Checked RR	Drawing no: P0009-DXB-AR-GE-626	0
Cad File Ref:	Approved		



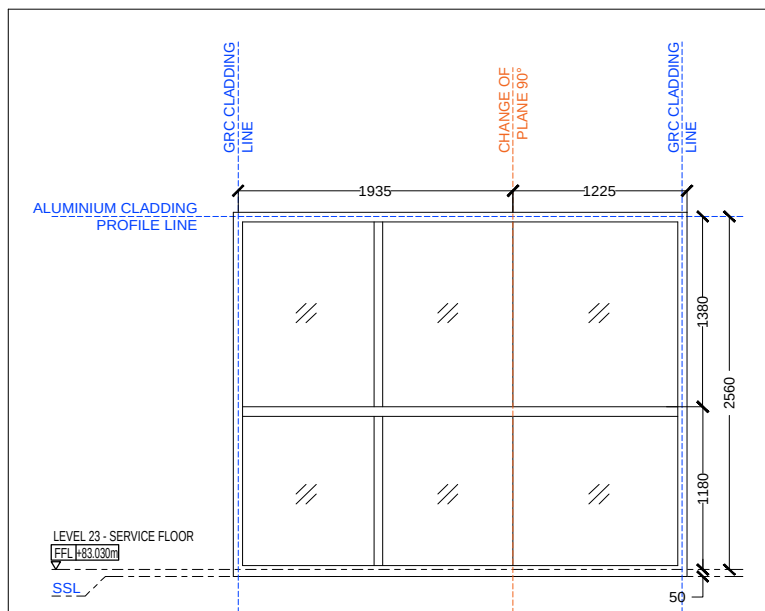
WINDOW TYPE: WG-08-B	
DESCRIPTION	FIXED GLAZING WITH CORNER GLASS PANEL
FINISH	EXTERIOR, DBL GLASS INFILL PANELS WITH VISIBLE ALUMINIUM COVER CAP FRAMING
FIRE RATING	NOT APPLICABLE
LOCATION	LEVEL: 23 - SERVICE FLOOR



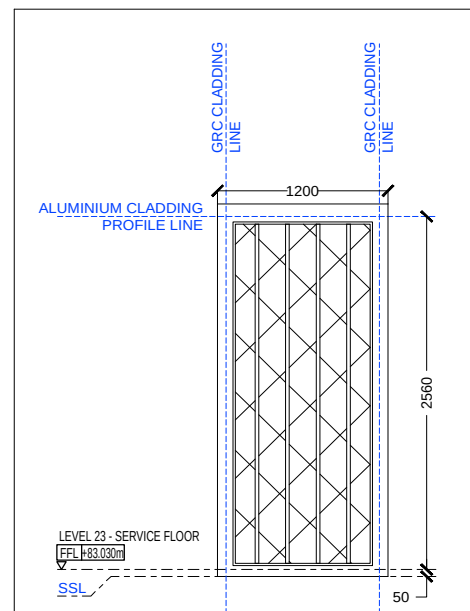
SCREEN CROWN: SC-13-B	
DESCRIPTION	FIXED PERFORATED ALUMINIUM PANELS AND INSULATED RENDER FINISH PANELS
FINISH	EXTERIOR TYPE, PVF COATING & GREY/DARK RENDER AND PAINT RESPECTIVELY
FIRE RATING	THERMALLY BROKEN ALUMINIUM STICK SYSTEM
LOCATION	LEVEL: 23 – SERVICE FLOOR



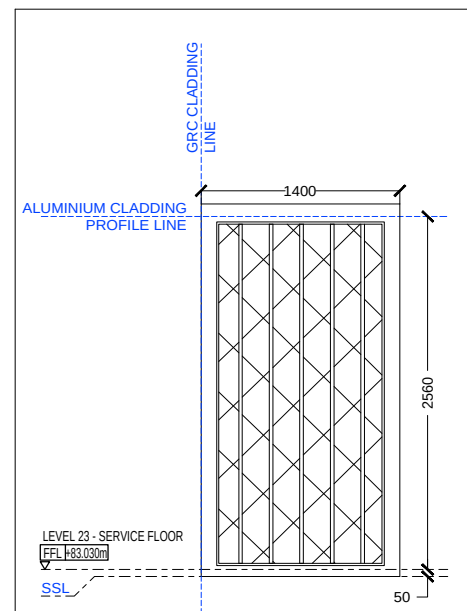
SCREEN CROWN: SC-14-B	
DESCRIPTION	FIXED PERFORATED ALUMINIUM PANELS AND INSULATED RENDER FINISH PANELS
FINISH	EXTERIOR TYPE, PVF COATING & GREY/DARK RENDER AND PAINT RESPECTIVELY
FIRE RATING	THERMALLY PROTECT ALUMINIUM STICK SYSTEM
LOCATION	LEVEL:23 – SERVICE FLOOR



WINDOW TYPE: WG-08-A	
DESCRIPTION	FIXED GLAZING WITH CORNER GLASS PANEL
FINISH	EXTERIOR, DBL GLASS INFILL PANELS WITH VISIBLE ALUMINIUM COVER CAP FRAMING
FIRE RATING	NOT APPLICABLE
LOCATION	LEVEL: 23 - SERVICE FLOOR



SCREEN CROWN: SC-13-A	
DESCRIPTION	FIXED PERFORATED ALUMINIUM PANELS AND INSULATED RENDER FINISH PANELS
FINISH	EXTERIOR TYPE, PVF COATING & GREY/DARK RENDER AND PAINT RESPECTIVELY
FIRE RATING	THERMALLY BROKEN ALUMINIUM STICK SYSTEM
LOCATION	LEVEL: 23 – SERVICE FLOOR



SCREEN CROWN: SC-14-A	
DESCRIPTION	FIXED PERFORATED ALUMINIUM PANELS AND INSULATED RENDER FINISH PANELS
FINISH	EXTERIOR TYPE, PVF COATING & GREY/DARK RENDER AND PAINT RESPECTIVELY
FIRE RATING	THERMALLY PROTECT ALUMINIUM STICK SYSTEM
LOCATION	LEVEL:23 – SERVICE FLOOR

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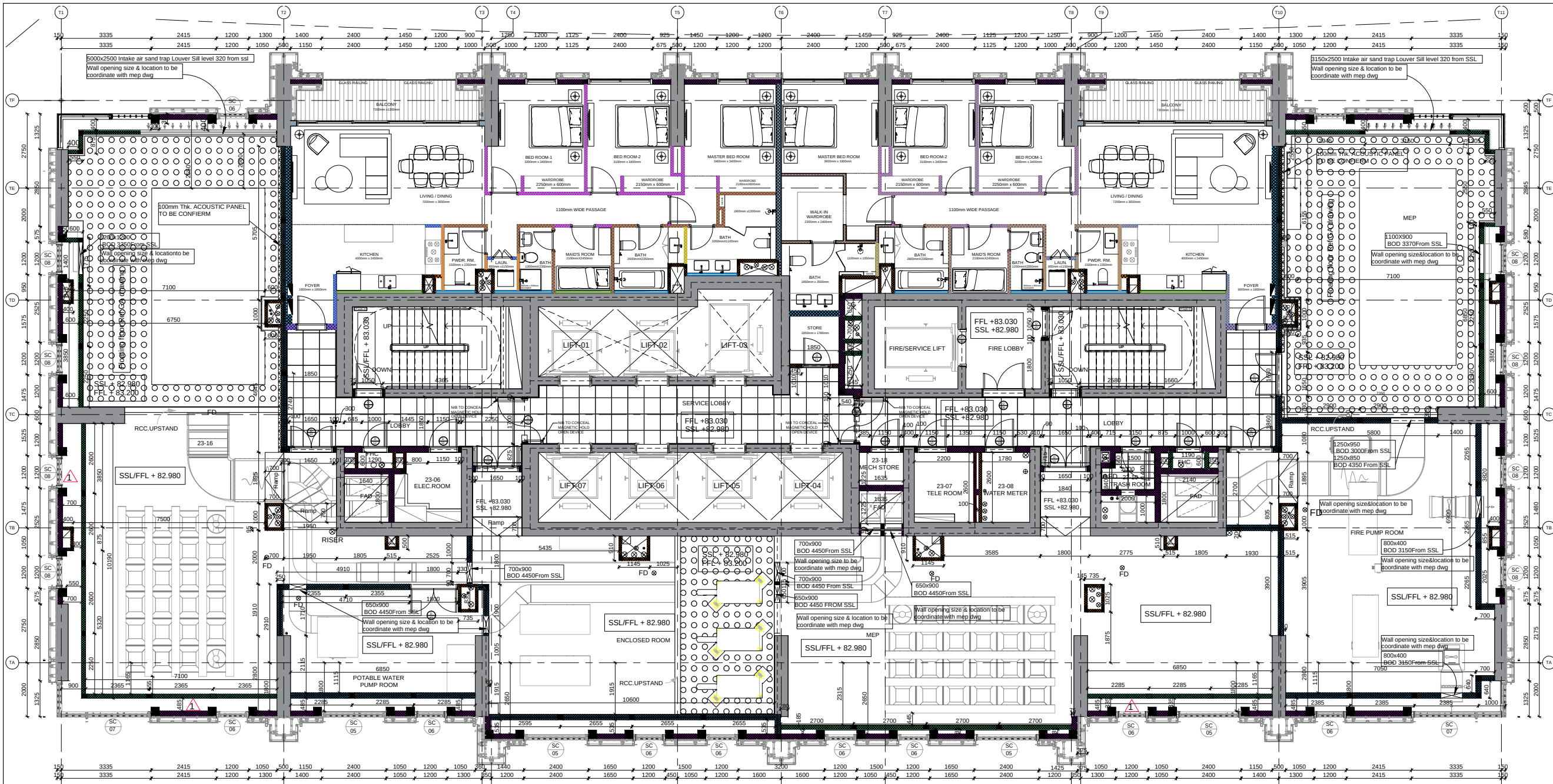
REVIEWS / ISSUE	
Client / Owner	
	
Architects	
 DC مهندسين و معمارين دبي DUBAI CONSULTANTS مهندسين • معمارين في - اعر مكتب مهندسين Architects • Engineers P.O. Box 81395 Tel. 3392437 Fax 3392438 E-Mail : info@dubaiconsultants.ae	
	

PROPOSED 2 NOS. OF 3BHK UNITS
ON LEVEL-23 IN DOWNTOWN PLOT 27
RESIDENTIAL BUILDING

Drawing Status:	DETAIL DESIGN	
Drawing Title:	OPENINGS SCHEDULE GLAZING & EXTERNAL SCREEN SCHEDULE (SHEET 02 OF 02)	

Scale(s)	Date 03-10-2022	Job no: 2102-RS-ABM	
Drawn MP	Checked RR	Drawing no:	Rev.
Cad File Ref:	Approved	P0009-DXB-AR-GE-627	0

Scale(s)	Date 11-10-2022	Job no: 2102-RS-ABM	
Drawn MP	Checked RR	Drawing no:	Rev:
Cad File Ref:	Approved		



PROPOSED 2NOS. OF 3BDR UNITS AT LEVEL-23

OVERLAID ON AS-BUILT PLAN AT LEVEL-23

WALL TYPES LEGEND

- W1: Wall Type 1 - Double Stud Wall - Gypsum / Gypsum
- W2: Wall Type 2 - Double Stud Wall - Gypsum / Calcium Silicate
- W3: Wall Type 3 - Double Stud Wall - Calcium Silicate / Calcium Silicate
- W4: Wall Type 4 - Double Stud Wall - Calcium Silicate / MR Gypsum
- W5: Wall Type 5 - Double Stud Wall - Gypsum / MR Gypsum
- W6: Wall Type 6 - Double Stud Wall - MR Gypsum / MR Gypsum
- W7: Wall Type 7 - Wall Liner - Gypsum
- W8: Wall Type 8 - Wall Liner - Calcium Silicate
- W9: Wall Type 9 - Wall Liner - Calcium Silicate
- W10: Wall Type 10 - Acoustically Isolated Wall Lining
- W11: Wall Type 11 - 200mm Solid Block Work
- W12: Wall Type 12 - 100mm Hollow Block Work
- W13: Wall Type 13 - 200mm Thermally Insulated Block Work
- W14: Wall Type 14 - 150mm Solid Block Work
- W15: Wall Type 15 - 100mm Thermally insulated double stud wall, Cal Sil
- W16: Wall Type 16 - 300mm Solid Block Work
- W17: Wall Type 17 - 400mm Solid Block Work

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Rev No.	Issue Date	Description

REVISIONS / ISSUE

Client

Architects



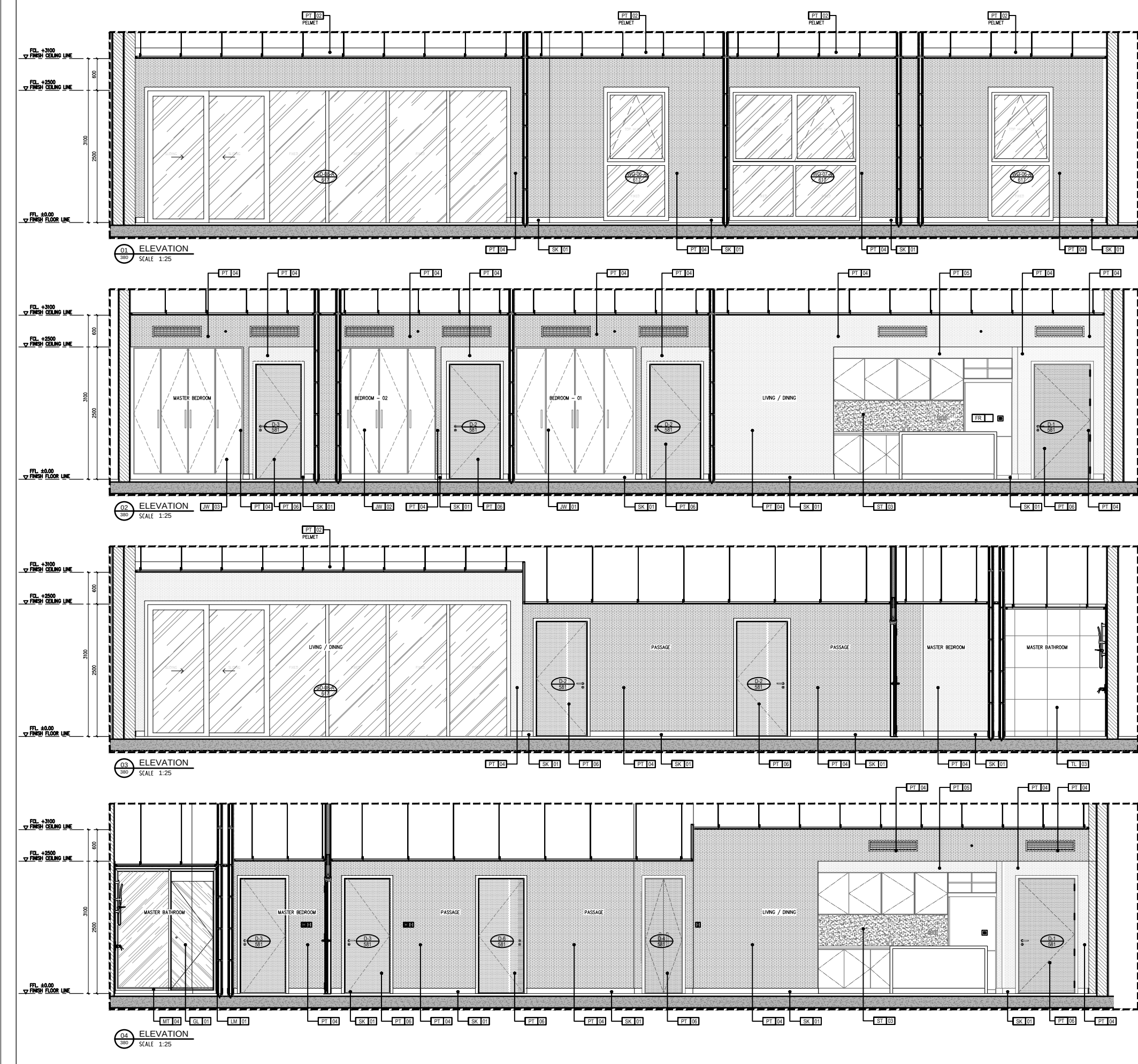
Project Title:

PROPOSED 2 NOS. OF 3BHK UNITS ON LEVEL-23 IN DOWNTOWN PLOT 27 RESIDENTIAL BUILDING

Drawing Status: **DETAIL DESIGN**

Drawing Title: **FLOOR PLAN
LEVEL 23 - SERVICE FLOOR**

Scale(s)	Date 11-10-2022	Job no. 2102-RS-ABM
Drawn MP	Checked RR	Drawing no.
Cad File Ref: Approved	P0009-DXB-AR-GE-658	Rev. 0



NOTE: ALL WALLS, BLOCKWORK OR PARTITION ARE FROM SSL TO BOTTOM OF CONCRETE SLAB AT +88.950.

LEGEND : PAINTS

PT 02	EMULSION PAINT RAL9016 FOR CEILING SOFFIT (DRY AREA)
PT 04	EMULSION PAINT RAL9010 FOR WALLS (DRY AREAS)
PT 05	ANTI FUNGAL PAINT RAL9010 FOR WALLS (WET AREAS)
PT 06	PU PAINT RAL9010 FOR INTERNAL DOORS & WARDROBES
SK 01	600X100MM PORCELAIN SKIRTING (GENERAL AREAS)
SK 02	600X100MM PORCELAIN SKIRTING BATHROOMS AND LAUNDRY)
ST 02	RECONSTITUTED STONE FOR BATHROOM VANITY COUNTER, WC LEDGE, BATHTUB AND SHOWER UPSTAND
ST 03	RECONSTITUTED STONE FOR KITCHEN COUNTER & BACKSPASH
TL 03	600X600MM PORCELAIN WALL TILES (BATHROOMS)
JW 01	2250MM X 600MM
JW 02	2150MM X 600MM
JW 03	2100MM X 600MM
JW 04	(1700+1200)MM X 600MM

- ELEVATION NOTES:**
- REFER TO GENERAL NOTES SHEET ID-GE-GE-002
 - THE INDIVIDUAL DISTANCE BETWEEN TWO OUTLETS OR SWITCHES PLATES TO BE 20MM, UNLESS OTHERWISE SPECIFIED
 - ALL SOCKETS AND SWITCHES TO BE VERTICALLY ALIGNED IF PLACED WITHIN THE SAME WALL
 - REFER TO ARCHITECTURAL PACKAGE FOR WINDOW DETAILS
 - REFER ARCHITECTURE PACKAGE FOR WALL/PARTITION TYPES

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Rev No.	Issue Date	Description

REVISIONS / ISSUE

Client / Owner

Architects

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P.O. Box 81385 Dubai, U.A.E.

Tel : +966 4 3242471 Fax : +966 4 3242472

E-Mail : info@dubaiconsultants.ae

Project Title:

PROPOSED 2 NOS. OF 3BHK UNITS ON LEVEL-23 IN DOWNTOWN PLOT 27 RESIDENTIAL BUILDING

Drawing Status: **DETAIL DESIGN**

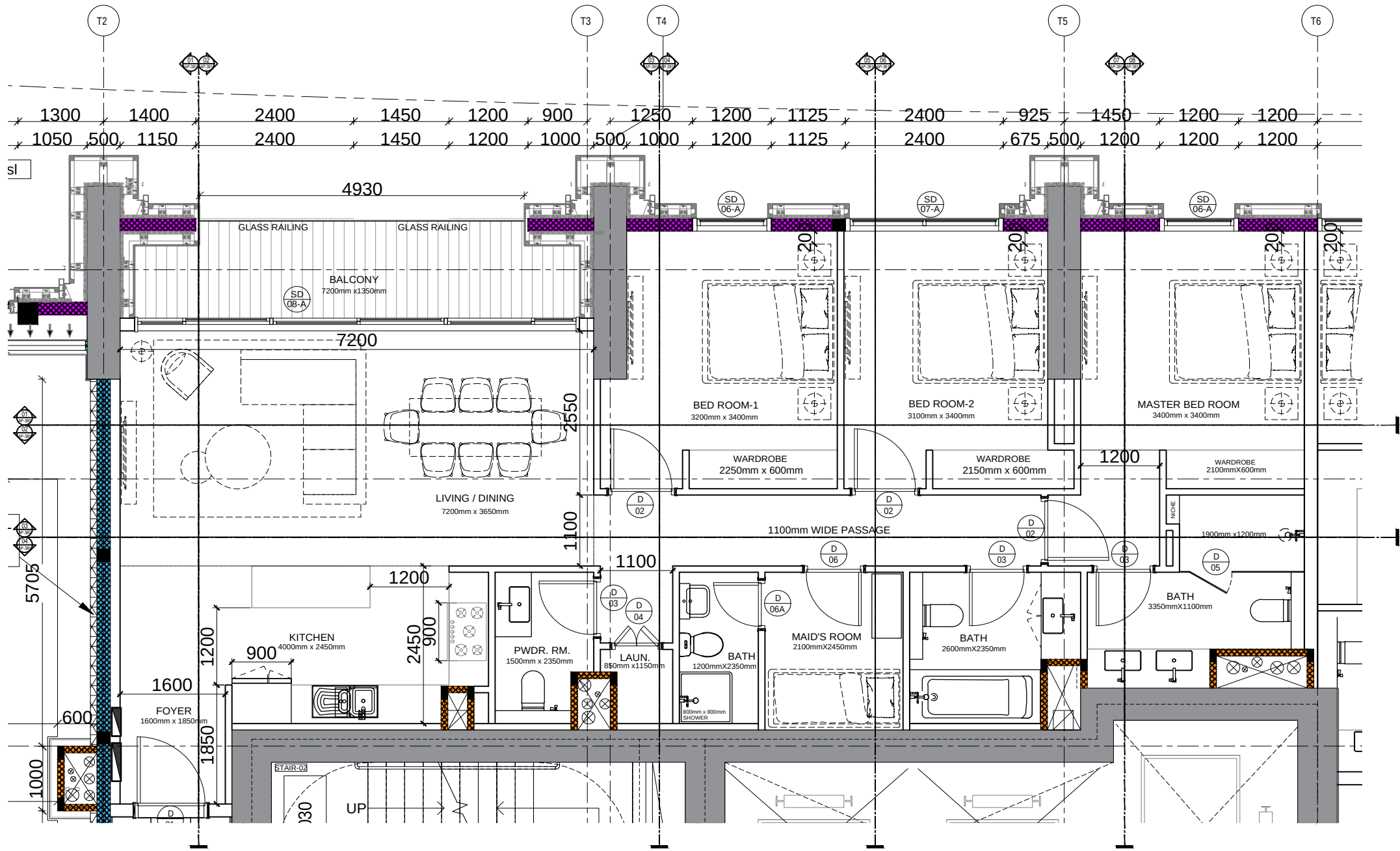
Drawing Title:

**INTERIOR ELEVATIONS
3 BDR UNIT - TYPE A
SHEET 01 OF 02**

Scale(s) Date Job no: 03-10-2022 2102-RS-ABM

Drawn Checked Drawing no: RR

Cad File Ref: Approved P0009-DXB-ID-GE-AP-380 0



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Rev No.	Issue Date	Description

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Client / Owner

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P.O. Box 81385 Dubai, U.A.E.
Tel : 32524371 Fax : 32524372
E-Mail : info@dubaiconsultants.ae

Project Title:
PROPOSED 2 NOS. OF 3BHK UNITS
ON LEVEL-23 IN DOWNTOWN PLOT 27
RESIDENTIAL BUILDING

Drawing Status: **DETAIL DESIGN**

Drawing Title:
**3 BDR UNIT - TYPE A
FLOOR PLAN @ 23RD LEVEL**

Scale(s)	Date 03-10-2022	Job no: 2102-RS-ABM
Drawn MP	Checked RR	Drawing no:
Cad File Ref:	Approved	P0009-H2R-DXB-ID-GE-AP-490-A
		Rev. 0

ELEVATION NOTES:
1. REFER TO GENERAL NOTES SHEET ID-GE-GE-002
2. THE INDIVIDUAL DISTANCE BETWEEN TWO OUTLETS OR SWITCHES PLATES TO BE 20MM, UNLESS OTHERWISE SPECIFIED
3. ALL SOCKETS AND SWITCHES TO BE VERTICALLY ALIGNED IF PLACED WITHIN THE SAME WALL
4. REFER TO ARCHITECTURAL PACKAGE FOR WINDOW DETAILS
5. REFER ARCHITECTURE PACKAGE FOR WALL/PARTITION TYPES



PROJECT 1: RABIYA (PRIVATE RESIDENCE)







CRITICAL OVERVIEW:

The internship period has been very beneficial. Faced with various tasks and problems, I wish to thank all the seniors at the firm for their constant support and guidance throughout. My role at the firm was involved in architecture and civil project. Working directly with the architect or engineer has given the access to more experience and knowledge, helping me develop myself as a professional as well as a person.

Entering a new environment and an understanding the work culture and learning to support and work as a team has been a great part of my learning. The importance of communication and coordination not only with client but also with other consultants has helped in my professional development. I received great exposure to a variety of projects and even understand the local practices and procedures involved in any project. The overall duration of my training helped me gain valuable lessons from the people around me.

The whole period has highly improved my understanding of architecture.